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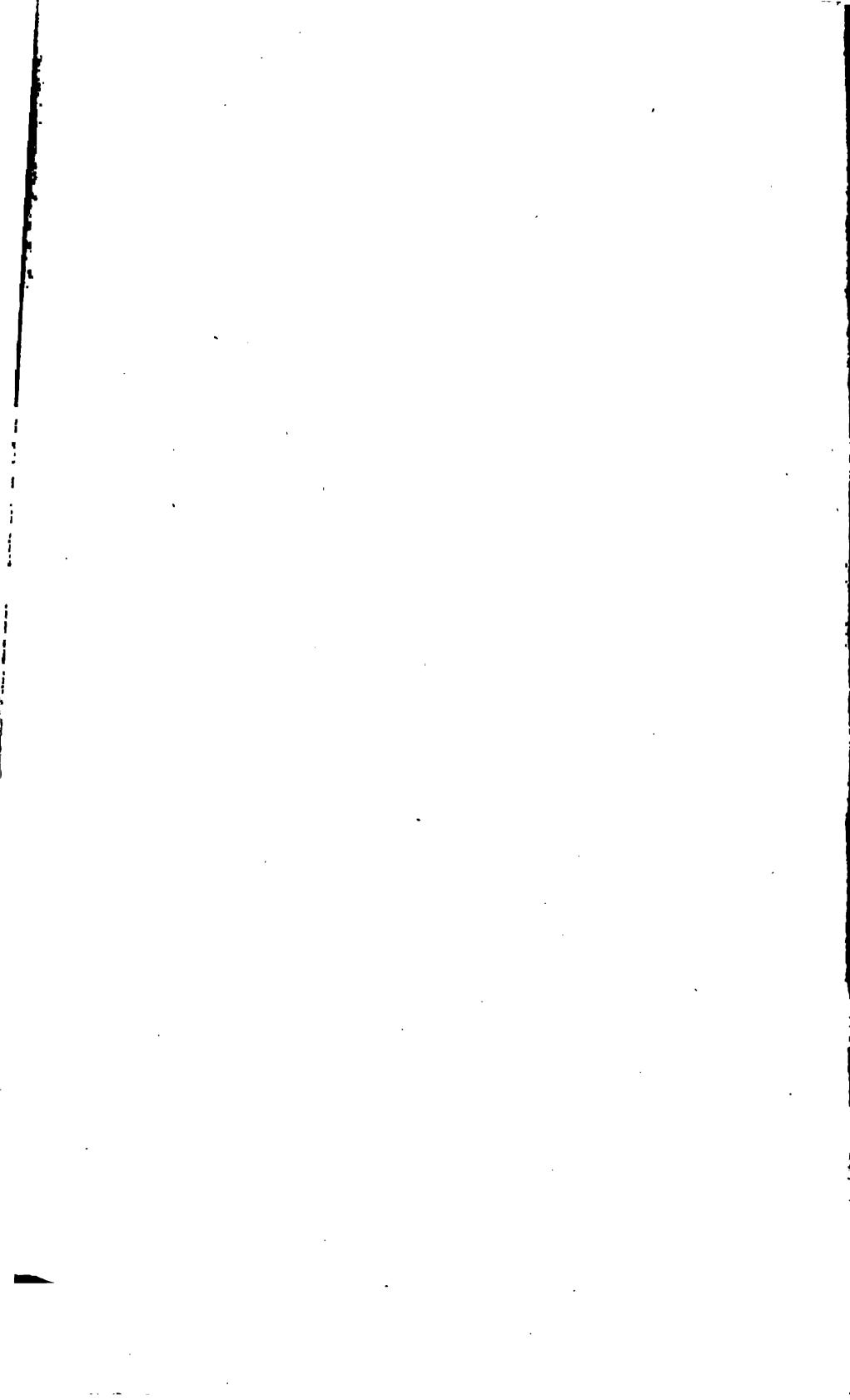
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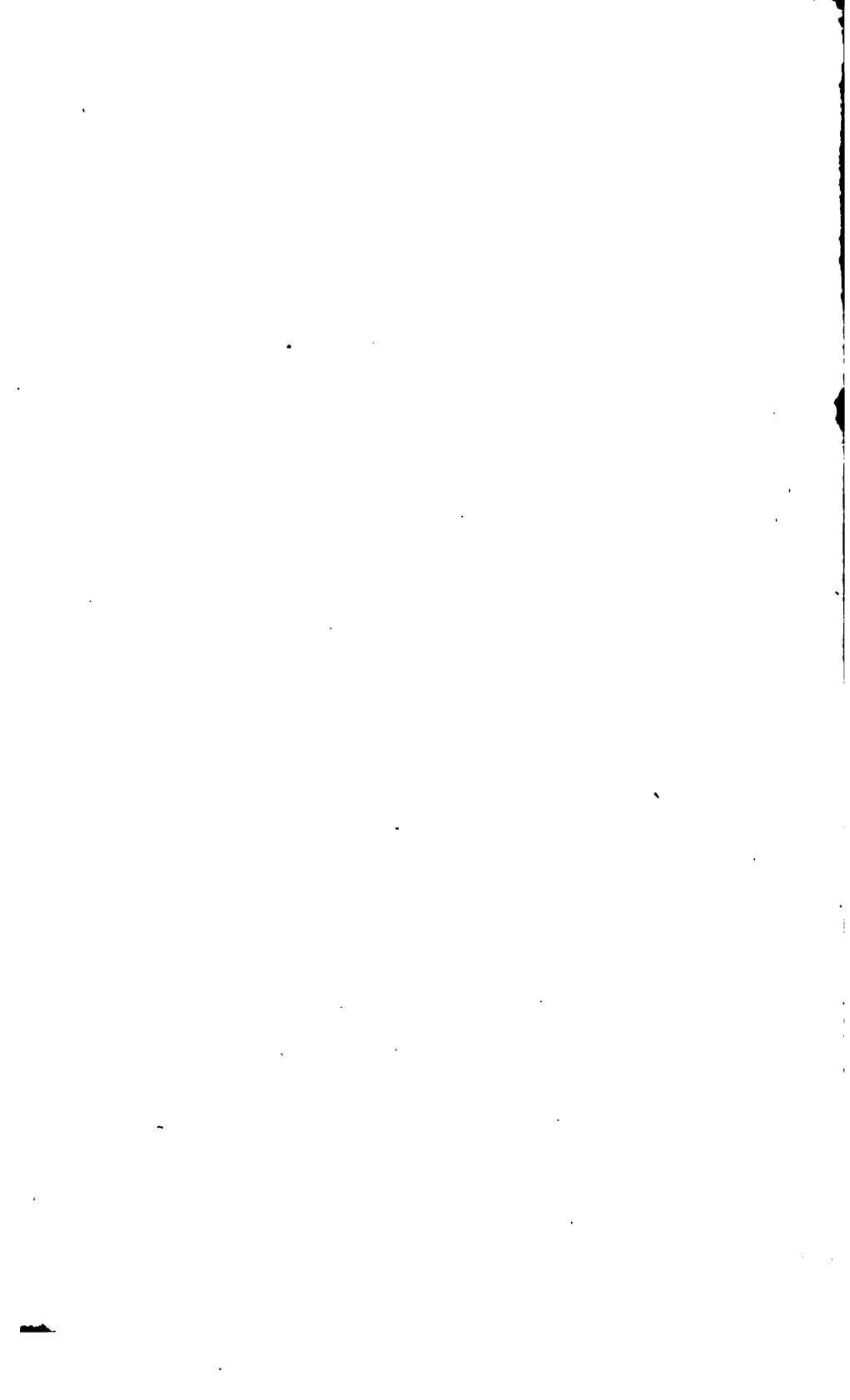
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# BIBLIOGRAPHY OF UNITED STATES PUBLIC DOCUMENTS Department List No. 1.

# LIST OF PUBLICATIONS

OF THE

# AGRICULTURE DEPARTMENT

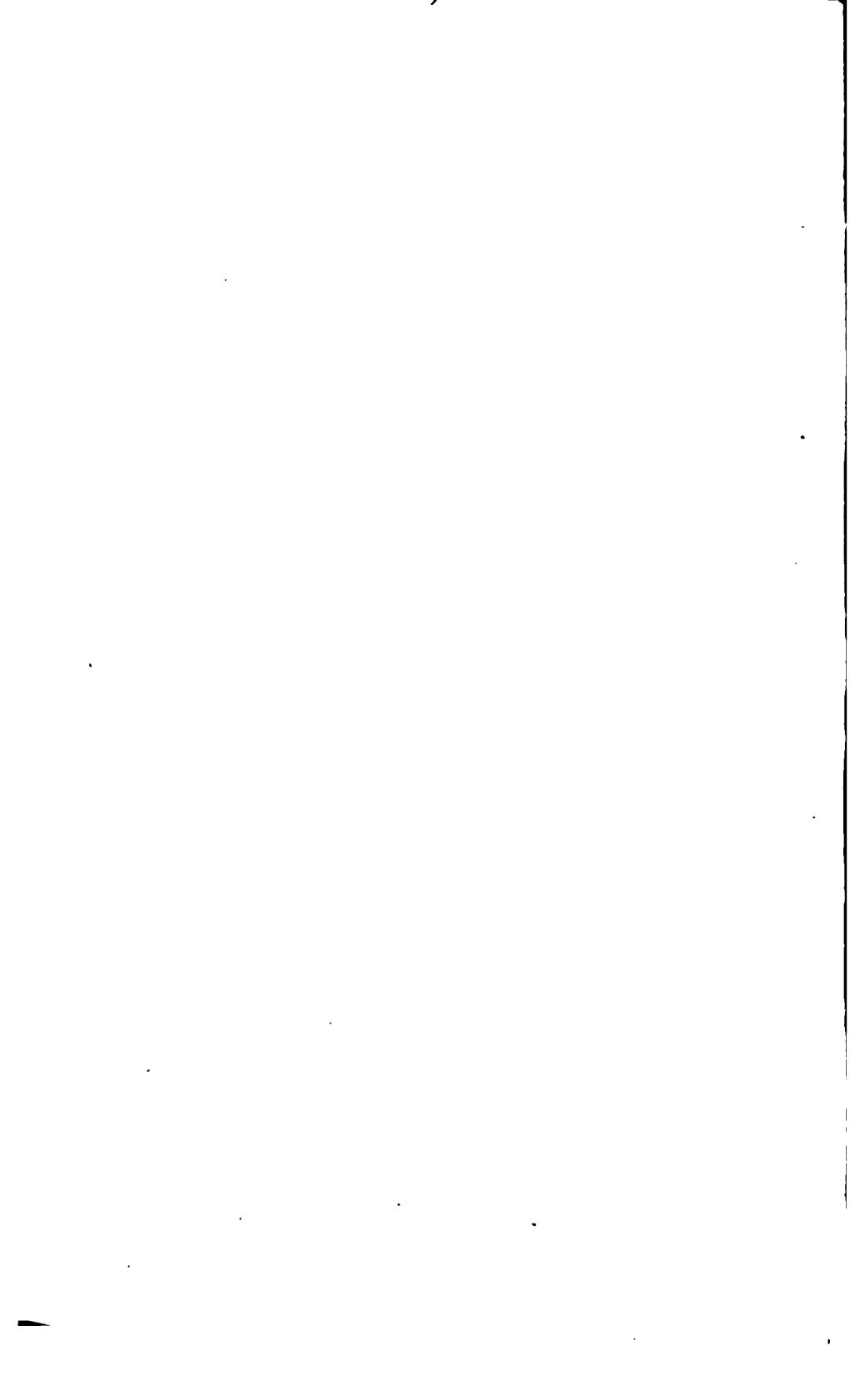
1862-1902

WITH ANALYTICAL INDEX

Prepared in the Office of the

GOVERNMENT PRINTING OFFICE

WASHINGTON
GOVERNMENT PRINTING OFFICE
1904



transfer to Seu heb. Stacks 9-21-48

# **CONTENTS**

	rage
Introduction	
Preface	7
Classification explained	8
Tables	19
Index to the tables	137
Appendix	615

# **ABBREVIATIONS**

(Circ.) Single-sheet publication, unnumbered.  Cong	S. mis. doc Senate miscellaneous document.  Serial no Serial numbers first assigned to bound volumes of Congressional documents in Document Checklist, 2d ed., 1895, and continued in document indexes of 55th and subsequent Congresses.  Session.  U.8 United States.  V Volume, volumes.
	<b></b>
1Leaf, leaves.	session.
n.d	U.SUnited States.
	vVolume, volumes.
n. t. p	f•Folio.
p., ppPage, pages.	4•Quarto.
pt., ptsPart, parts.	8•Octavo.
pl	12
porPortrait.	16•Sixteenmo.
rev	24•Twenty-fourmo.
S.ex.docSenate executivé document.	82•Thirty-twomo.
	•

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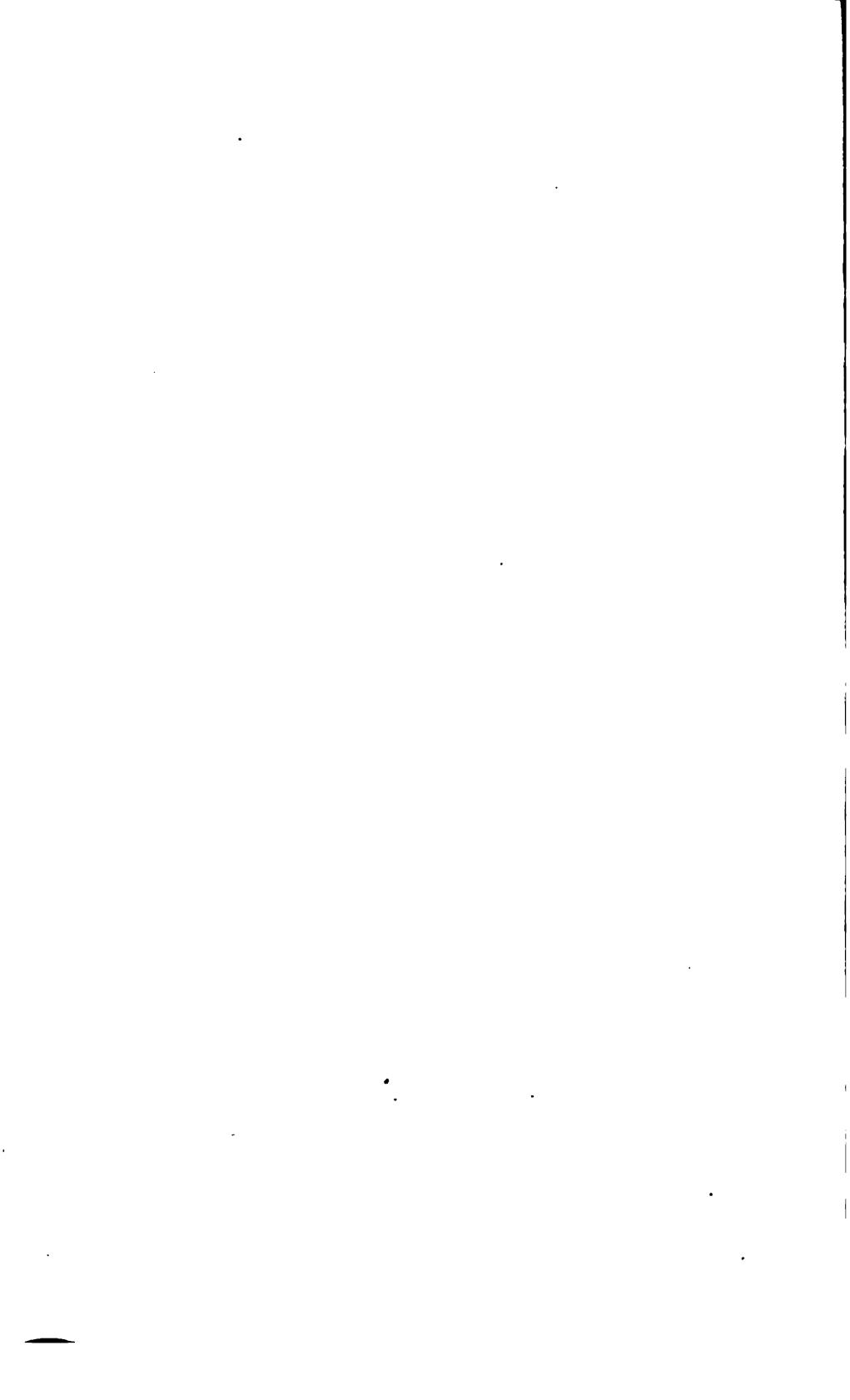
# INTRODUCTION

This List of Publications of the Agriculture Department, 1862–1902, with analytical index, is the first of the series of contributions toward a Bibliography of United States public documents, which will deal with the publications of all the Executive Departments and other independent publishing offices of the Government. Separate lists of the publications of each of these Departments and offices will be issued from time to time as completed, and will be supplied to State and Territorial libraries, designated depositories, and other libraries as far as the limited edition will admit. Librarians are invited to point out errors and to make suggestions for consideration prior to the consolidation of the complete work.

I desire to express my sincere thanks for the assistance rendered by Mr. George William Hill, Chief of the Publications Division, and Mr. Robert B. Handy, assistant in charge of the document section, Agriculture Department.

L. C. FERRELL, Superintendent of Documents.

**OCTOBER 13, 1903.** 



# PREFACE

Though next to the youngest of the Executive Departments of the United States Government, and its work having been for years impeded by lack of interest on the part of Congress, the publications of the Agriculture Department rank second to none in number and usefulness.

From a doubtful experiment, with an annual report as its only publication, the Department has developed into a great publishing office, the output of which is eagerly sought by those engaged in agricultural inquiry.

The constant changes in the personnel of the various divisions composing the Department, the growing need and gradual extension of investigations, necessitated in a degree, and at least satisfactorily explain, the otherwise incomprehensible peculiarities and confused methods which characterize the publications of the various bureaus and offices and of the Department as a whole.

### FORMER LISTS.

As early as 1867 a general index was made to the annual reports from 1862 to that date (A1.1:867, p. 473), and a still more elaborate index, 1837–1876 (including the agricultural reports made through the Patent Office from 1837–1861), was issued in 1879 (A1.8:14), with a supplement bringing the work down to 1885, printed in 1886 (A1.8:42); but it was not until 1894 that a list of the miscellaneous publications appeared (A1.8:55), and that included only the publications for the five years from 1889 to 1893, being simply a consolidated reprint of the lists which had been a feature of the annual reports of the Secretary for those years.

In 1896 another index to the annual reports, 1837–1893, was printed (A21.3:1), in the preface to which the former attempts to index the reports are characterized as "so unsatisfactory for the purpose for which they were designed as to have fallen into almost complete dis-

use." While it is not doubted that this index was of great service, it still left the problem of the miscellaneous publications unsolved, and it was therefore gratifying when, toward the latter end of the same year, the first list including these publications was issued.

This checklist, including all the publications from 1841 to June 30, 1895 (A17.3:9), and giving a decimal classification for the convenience of those who wished to "keep their files of Government publications apart from their general collection of books," served to emphasize the necessity for a complete catalogue of the publications therein enumerated, and formed a working basis in collecting the set of publications of the Agriculture Department in the library of the office of the Superintendent of Documents, which is now the most complete set of such publications in existence.

In 1898 an author index to all the publications of the Department, 1841–1897, was printed (A21.3:4). Much valuable information was necessarily omitted from this work on account of the limitations of a strictly "author index," which debarred some important publications that failed to bear their authors' names.

The latest attempt to supply the much-needed reference list was a "List by titles from 1840 to June, 1901," issued in 1902 (A21.3:6). It was but an elaboration of the checklist of 1896, and while more complete, presented the matter in an equally awkward form for quick reference use.

It is hoped that the present list, combining both methods used by its predecessors, the checklist and the index forms, will prove a satisfactory reference work and lead the searcher quickly to the desired publication.

### CLASSIFICATION EXPLAINED. .

With the establishment of the office of the Superintendent of Documents, by the provisions of the printing act of January 12, 1895, a new era in the history of public documents was inaugurated. Not only did the office at once undertake the tasks of cataloguing and indexing imposed upon it by law, but in its establishment as a great clearing house for the publications of the Government it became necessary to keep a file of the publications for reference use. In the beginning no definite idea could be formed of the extent of such a collection, and no one dreamed of the magnitude of the work undertaken when it was decided to collect and classify a library strictly governmental in character.

As it was seen to be impossible to arrange such a large and uncertain collection of special publications by either the "decimal" or "expansive" system of library classification in general use, a governmental author arrangement was adopted, corresponding in the main

to the classification applied by Miss Adelaide R. Hasse to the publications of the Agriculture Department in a list issued by the Department in 1895.

It was soon found that this classification, however adequate for a single Department, was not capable of meeting the needs of a great library of Government literature, and a new classification became a necessity.

It was no simple matter to devise a system of classification elastic enough to meet the needs of such a mass of unrelated matter as necessarily forms a library of United States public documents, nor to foresee, though aided by the fruits of the former experience, the many inconsistencies and incongruities against which to guard. Decimal, alphabetical, numerical, chronological, author, subject, and serial methods of classification were experimented with, until at last the present system, a combination of various schemes, was decided upon as the most simple and usable, and its application to the Library has proven satisfactory in every way.

But if the task of applying an acceptable system to the books was hard, that of explaining it concisely and lucidly is certainly more difficult. In giving the following explanation of the method of classification for United States public documents, as it is now used in the Public Documents Library, which contains the largest collection of such publications, the hope is entertained that many of the large libraries may be led to use the scheme, thus insuring uniformity of classification, and making the lists of the various Departments, of which this work is the first, a direct index to the publications on their shelves.

The classification is by governmental authors: First, by Departments or independent publishing offices; second, by bureaus, offices, or divisions of such Departments or independent publishing offices.

# Department symbol.

The first letter of the distinctive word in the title of each of the nine Executive Departments is used to designate the Department, and is written as the first term in the "classification number," as follows:

A = Agriculture Department.

C = Commerce and Labor Department.

I = Interior Department.

J = Justice Department.

N = Navy Department.

P = Post-Office Department.

S = State Department.

T = Treasury Department.

W = War Department.

In order that no conflict should arise between the Executive Departments notation and that of any of the independent publishing offices, two letters are used in all other notations, as follows:

CS = Civil Service Commission.

DC= District of Columbia.

FC = Fish Commission.

FS = Freedman's Savings and Trust Company.

GN=Geographic Names Board.

GP = Government Printing Office.

IC = Interstate Commerce Commission.

Ju = Judiciary (United States courts, etc.).

La = Labor Department.

LC = Library of Congress.

NA = National Academy of Sciences.

NH=National Home for Disabled Volunteer Soldiers.

Pr = President of United States.

SI = Smithsonian Institution.

These two lists give the complete letter symbols, and the arrangement on the shelves is strictly alphabetical taking them as a whole. Of course, the publications of the Fish Commission and the Labor Department have since the 1st day of July, 1903, been classified among the publications of the Commerce and Labor Department, of which they are now bureaus, but their publications as separate publishing offices are left under the old classification.

# Bureau, office, or division symbol.

A symbol having been supplied for the Departments and independent publishing offices, one for each of the bureaus, offices, and divisions of such Departments or publishing offices was next considered.

The figure 1 following the Department or independent publishing office symbol was fixed upon to represent the Secretary of the Department or the chief executive officer of any of the independent publishing offices, and is always used for such, thus—

A1 = Agriculture Department, Secretary's office.

W1=War Department, Secretary's office.

GP1=Government Printing Office, Public Printer's office.

Beginning with figure 2, the numbers are applied in numerical order to the various publishing bureaus, offices, and divisions, these having been arranged alphabetically when the classification was applied; new offices to be added at the end of the list of a Department and assigned the next number.

This of course does not provide for an alphabetical arrangement of the bureaus, offices, etc., in the future, but does furnish a distinctive symbol for each without limit. A, point is placed after this second symbol to separate the Department and bureau notation from the rest of the "classification number." Examples:

A1. = Agriculture Department, Secretary's Office.

A2. = Agriculture Department, Accounts and Disbursements Division.

A3. = Agriculture Department, Agrostology Division.

A4. = Agriculture Department, Animal Industry Bureau.

T1. = Treasury Department, Secretary's Office.

T2. = Treasury Department, Appointments Division.

T3. = Treasury Department, Auditor for Treasury Department (First Auditor.)

T4. = Treasury Department, Auditor for War Department (Second Auditor.)

# Series symbol.

Next to be considered was a symbol for the numerous series of publications which emanate from these various publishing offices. As substantially every Government publishing office issues an annual report, this annual report is considered to be the most important series in the publications of every office, and figure 1 was therefore designated as the symbol for "annual reports," and written as the third term in a "classification number," following the point.

In like manner an arbitrary symbol, figure 2, is assigned to the numerous publications of a miscellaneous character which are not numbered or volumed in any series. Such sporadic issues have been called "general publications," and their symbol, figure 2, is written as the third term in a "classification number".

A majority of the publishing offices issue their publications numbered in series called "bulletins" or "circulars" or both; the terms being applied without any regularity as to size or character of the works thus numbered. The figure 3 for "bulletins" and the figure 4 for "circulars" have been permanently assigned to these classes, to be written as the third term in a "classification number."

We now have figures 1, 2, 3, and 4, when written after the point as the third term in a "classification number," permanently assigned as symbols, as follows:

.1 = Annual reports.

.2 = General publications.

.3 = Bulletins.

.4 = Circulars.

From this point the various series are arranged alphabetically as far as possible, assigned the numbers following indefinitely, and all

new series as they come to hand are given the next number to be applied to a series, under the office from which they emanate.

Should an office fail to issue any of the four classes of publications here described, the numbers are left blank, and the numbering of such series as they may issue begins with figure 5.

Following the series symbol a colon is used to separate the series figure or figures from the characters used as individual "book numbers" to follow.

### Examples:

- A1. = Agriculture Department, Secretary's Office.
- A1.1: = Agriculture Department, Secretary's Office, annual reports.
- A1.2: = Agriculture Department, Secretary's Office, general publications.
- A1.3: = Agriculture Department, Secretary's Office, bulletins.
- A1.4: = Agriculture Department, Secretary's Office, circulars.
- A1.5: = Agriculture Department, Secretary's Office, miscellaneous circulars.
- A1.6: = Agriculture Department, Secretary's Office, special reports.
  - N6. = Navy Department, Hydrographic Office.
- N6.1: = Navy Department, Hydrographic Office, annual reports.
- N6.2: = Navy Department, Hydrographic Office, general publications.
- N6.3: = Navy Department, Hydrographic Office, bulletins.
- N6.4: = Navy Department, Hydrographic Office, circulars.
- N6.5: = Navy Department, Hydrographic Office, catalogues and lists.
- N6.6: = Navy Department, Hydrographic Office, corrections and additions.
- N6.7: = Navy Department, Hydrographic Office [practical papers].

### Book number.

An individual "book number" is all that is now needed to complete the classification. The symbols for this purpose are written after the colon as the fourth term in the "classification number." In the case of annual or periodical publications the date is used as the book number; for a volumed series the volume number is used, and in a numbered series the number. The works classified as "general publications" being without any of these distinctive features, it is found advisable to arrange them in alphabetical order under the most significant words of their titles, or under their subjects, and the Cutter Author Table symbols for such words are used as "book numbers."

# Examples:

A1.1:901 = Agriculture Dept., Secy's Office, annual report, 1901.

A1.1:902 = Same, 1902.

A1.2: = Agriculture Dept., Secy's Office, general publications.

A1.2:An4 = Angora. Notice of receipt of letter from Minister Terrell, relating to agriculture in Angora.

November 1, 1893. (Circ.)

A1.2:L48 = Leave of absence not allowed to employees outside of Washington. October 21, 1896. (Circ.)

N6.8: = Navy Department, Hydrographic Office, publications (numbered).

N6.8:3 = [No. 3.] List of reported dangers to navigation in Pacific Ocean, whose positions are doubtful, or not found on charts in general use. 1866.

191 pp.

N6.8:40 = No. 40. Steam lanes across Atlantic; [by M. F. Maury.] 1872. 19 pp. 3 pl.

T14.5: = Treasury Department, Second Comptroller, decisions, digest of.

T14.5:1 = Volume 1. Compiled by George Chipman. 1852. T14.5:2 = Volume 2, 1869-1884; compiled by R. J. Mitchell. 1885. 433 pp.

# Superior letters and figures.

Two other very useful features of the classification need some explanation, namely, the use of the superior letter a (a), and the superior figures  $(a^{1-2})$ .

The superior letter always designates excerpts from the publication bearing the same notation without the (a). The name adopted for these excerpts is "separates," and they are always designated by the superior (a). These "separates" are arranged in classes by themselves, immediately following the series from which they are taken. In cases where the separates are from an annual report series it has often been found necessary to make two classes. The personal report of the chief, which usually appears in pamphlet form without the accompanying documents, is arranged and book-numbered by dates. The other class, scientific reports accompanying the report of the chief, is arranged alphabetically on the same plan as the "general publications."

# Examples:

A1.1:901 = Agriculture Department, Secretary's Office, annual report, 1901.

A1.1\*:901 = Agriculture Department, Secretary's Office, annual report, 1901 (separate).

Examples—Continued.

N14.5:885 = Navy Department, Naval Observatory, Astronomical and Meteorological Observations, 1885.

N14.5°:As8 = Same (separate). Astrophotographic Congress, International, etc.; by A. G. Winterhalter. 1889. (Reprint of Appendix 1, Astronomical and Meteorological Observations, 1885.)

The superior figures are used to differentiate between two publications which may of necessity be assigned the same symbol in the alphabetical classification, and also to distinguish between the various editions of the same serial or numbered publication.

Examples:

A1.2: = Agriculture Dept., Secy's Office, general publications.

A1.2:Ag8<sup>1</sup> = Agricultural colleges. List of delegates and visitors to tenth annual convention of Association of American Agricultural Colleges and Experiment Stations, 1896. n. t. p. 3 pp.

A1.2:Ag8<sup>3</sup> = Agriculture Department. [Letter as to work and needs of Department of Agriculture; by William G. Le Duc.] February 27, 1880. n. t. p. 15 pp.

I16.5: = Interior Department, Education Bureau, Circulars of Information.

I16.5:875<sup>1</sup> = 1875, No. 1. Proceedings of Department of Superintendence of National Educational Association, Washington, D. C., January 27 and 28, 1875. 1875. 114 pp. 1 pl.

I16.5:875<sup>2</sup> = 1875, No. 2. Education in Japan; [by William E. Griffis and David Murray.] 1875. 64 pp.

N6.8: = Navy Department, Hydrographic Office, publications (numbered).

N6.8:90<sup>1</sup> = No. 90. Development of great circle sailing; by G. W. Littlehales. 1889. 53 pp. 5 pl. 1 map.

 $N6.8:90^{2}$  = Same, 2d ed. 1889. 63 pp. 7 pl. 2 maps.

It will be seen that the system here presented is expansive enough to cover any number of departments, offices, series, or books, and that, too, in as concise a form as possible. A long or intricate classification number is not only hard to apply to a book, but it is difficult to remember in consulting the shelves, and it should therefore be as short and simple as possible. Certainly the numbers or symbols in the method herein described express a great deal in a limited space, and it is hard to conceive of a shorter method of expressing such a phrase as "Interior Department, Geological and Geographical Survey

of the Territories (Hayden), Final reports, Volume 9," than by the accurate notation I18.5:9, which, when analyzed, exhibits a clear statement of the entire phrase: (I) Interior Department; (18) Geological and Geographical Survey of the Territories (Hayden); (.5) Final reports; (:9) Volume 9:=I18.5:9.

### THE TABLES.

The Tables in this work are elaborated from the card shelf list used in this Library. All the necessary bibliographical information is appended to the entry of a publication or series, and no time or effort has been spared in the attempt to make these Tables present an accurate and complete list of all the publications of the Department from 1862, including all 1902 imprints.

When a publication was also issued as a Congressional document the Congressional reference is inserted after the entry for such publication in the Tables. In a few instances a single paper in a volume has been so issued, and in those cases it has been necessary to insert the Congressional reference in the Index.

Those publications which emanated from the Department, but which were issued only as Congressional documents, are listed chronologically in the Appendix to this work.

The titles in the Tables are exact copies of the title-pages of the publications with the omission of unnecessary articles. In case of "general publications" or other series which are classified alphabetically the subject words are introduced as headings and the title follows as it appears on the publication.

In counting the maps, plates, charts, etc., in a volume the total number has been stated as "plates," except in cases where the character of the illustration was plainly determined by numbering.

When the word circular "(circ.)" appears at the end of an entry it indicates a one-page publication of uncertain size.

### THE INDEX.

The Index, which forms the most important as well as the larger part of this work, has been carefully compiled with a view to quick reference to any special author, subject, or title. In dealing with a collection of publications differing so widely in their subject-matter, and for the most part of a scientific character, it has been found difficult to determine the best form of entry in many instances for papers with meaningless or strictly technical headings, especially when a reading of the paper by one unacquainted with the subject treated has proved equally unsatisfactory in suggesting a suitable title. There are doubtless omissions on account of these nondescript titles, which, to save time, have been used for the Index entries. Only where titles

were found perfectly meaningless, as "A few facts from Florida" or "A popular experiment," has the article been read, the reason for which is clearly indicated by the statement that a complete collection of the publications of the Department includes about 3,500 books, pamphiets, and circulars of from 1 to 1,500 pages each, some of which contain fifty or more distinct papers.

The Index entries to the volumes listed are in many cases greatly abbreviated, as the full title and all information concerning the publication can be obtained from the entry in the Tables, but in the case of analytical references the full title as given in the document has been entered, in order to convey as much information as possible.

In analyzing the annual reports of the chiefs of the various bureaus or offices, only papers distinct from the main report, or which, if included, have an individual author, are brought out in the Index, the various subheads in the reports not being noted.

When a date does not appear in an entry in the Index it indicates that there is more than one edition or print of the article indexed, except in cases of undated publications, where a date could not be given, or of annual report analyticals, where the date appears as the book number.

### CONCLUSION.

The greatest drawback to systematic classification and ready reference was the vast number of miscellaneous unnumbered publications. An endeavor has been made in this list to classify in distinct series, as far as possible, this unwieldy mass, and to that end numbers have been assigned and series formed and named, or they were numbered in either the series "bulletins" or "circulars" when these series were not already filled.

There is no well-defined definition for either "bulletin" or "circular" as applied to public documents, as witnessed by the fact that the series of numbered "circulars" in the Surgeon-General's office, War Department, contains both large quarto volumes and one-page letters, while the circulars of other offices are single sheets of many varying sizes, and of some of the scientific bureaus of the Agriculture Department are small pamphlets. In assigning numbers in this list, however, the series of "bulletins" have been filled with the more important pamphlet publications, and the series "circulars," made up of the ephemeral or smaller works, generally of one-page letters.

The unnecessary multiplication of numbers on the title pages, especially of the publications of the Agriculture Department, is a subject which does not lend itself to easy explanation, if indeed there is any reason in it, and no account, therefore, has been taken in this list of the various "whole numbers" of the divisions, nor the "serial num-

bers" of certain classes of literature, which form a confused jumble of unintelligible characters on the title-pages of so many of the Department's pamphlets.

If the publications of each publishing office could be confined within the two series "bulletins" and "circulars," for which provision is made under each office in the classification; or if, in case of continued issues, they could be given a series title and series number of their own, such series title and series number to appear on the title-page (not on the cover or in the back title) of each publication, much of the confusion and oft-complained-of "multiplication of numbering" would be done away with.

Another great boon to librarians would be the adoption by the Department of a "whole number," to be assigned to all publications of the Department, no matter by which bureau issued, serially in the order of issue, printed in small type in an inconspicuous place on the title-page, or at the heading of an article, and applied without reservation to everything issued which the Department considers a "publication." This "whole number," however, not to supersede the series numbers of the publishing bureaus, but to take the place of all other title-page numbers.

In compiling lists of the publications of the Departments, everything issued by a Department, except circular letters and cards and notices of a purely office character, should be listed; and yet it is found in many instances almost impossible to determine what the Department considers a "publication," many numbered issues being of but a temporary character, while an unnumbered card or circular may be of importance, and if discarded would be regarded as a serious omission.

"Whole numbers" are now used by many of the publishing offices to designate a certain class of literature, but to be of practical value the number must be applied by the Department, and should appear on everything issued which it considers a "publication." Librarians could then easily keep track of the publications and be sure when they had them all, whereas now no one knows what constitutes a complete set of the publications of any of the great Departments.

A carefully assorted and beautifully bound collection of many of the publications of the Department, which proved of great value in compiling this list, is safely entombed in a vault in the grounds of the Department; its library has a fair representation of the publications; while most of the scientific bureaus retain files of at least the last editions of their works; but in no one place, nor in all combined, does the Department possess anything like a complete file of its valuable literature. This, however, is not surprising, for in all the well-

equipped libraries of the various Departments it is most discouraging to note the dearth of publications of the Departments themselves, a fact which should certainly be remedied.

Every bureau and office in the Department has been visited and private files searched in the endeavor to make this list complete, and it is hoped it will prove a satisfactory substitute for a catalogue of the Department's publications.

WILLIAM LEANDER POST.

Public Documents Library, October 12, 1903.

# **TABLES**

For a full explanation of the classification used in these Tables, see pp. 8-15, without a careful perusal of which the best results can not be obtained in using this list.



# A. AGRICULTURE DEPARTMENT

[By an appropriation for the collection of agricultural statistics, March 3, 1839, an agricultural section was established in the Patent Office. The section continued until May 15, 1862, when it was made a separate Department, though it was not until February 9, 1889, that it was raised to the dignity of a Cabinet office.]

### Classification no.

Al.l:

875

Annual reports

### A1. SECRETARY

# [The annual report on agriculture began in 1837 with a two-page statement in the report of Henry L. Elisworth, Commissioner of Patents. From that date to 1861 it formed a part of the report of the Commissioner of Patents, making a separate volume after 1849. In 1862 the Department of Agriculture was established and its annual report was uniformly issued up to 1893. Beginning with the report for 1894, in accordance with paragraph 2, section 73, of the printing act of January 12, 1895, the report has been prepared in two volumes, one containing the Secretary's report and the purely executive reports of the several chiefs of bureaus, divisions, and offices; the other, known as the Yearbook (A1.10:), embracing the Secretary's report and a collection of special articles on agricultural science. The title of the head of the Department was Commissioner of Agriculture until 1889, when he became Secretary of Agriculture and a member of the Cabinet. References to the various reports and scientific papers contained in this series of annual reports will be found under their proper headings in the Index to this work. For further information see notes under A1.1a:]

```
COMMISSIONER OF AGRICULTURE
862
      1862 (Newton), 632 pp., 52 pl.
         Same, 37th Cong., 3d sess., H. ex. doc. 78; serial no. 1168.
863
      1863 (Newton), 698 pp., 48 pl.
         Same, 38th Cong., 1st sess. In H. ex. doc. v. 5; serial no. 1184.
864
      1864 (Newton), 676 pp., 48 pl.
         Same, 38th Cong., 2d sess., H. ex. doc. 68; serial no. 1228.
      1865 (Newton), iv + 608 pp., 32 pl.
865
         Same, 39th Cong., 1st sess., H. ex. doc. 136; serial no. 1266.
      1866 (Newton), 656 pp., 36 pl.
866
         Same, 39th Cong., 2d sess., H. ex. doc. 107; serial no. 1297.
      1867 (Stokes; Capron), xix+512 pp., 37 pl.
867
         Same, 40th Cong., 2d sess. In H. ex. doc. v. 21; serial no. 1347.
      1868 (Capron), [4]+671 pp., 19 pl.
868
         Same, 40th Cong., 3d sess., H. ex. doc. unnumbered; serial no. 1383.
869
      1869 (Capron), 702 pp., 38 pl.
         Same, 41st Cong., 2d sess., H. ex. doc. unnumbered; serial no. 1428.
870
      1870 (Capron), 688 pp., 33 pl.
         Same, 41st Cong., 3d sess., H. ex. doc. unnumbered; serial no. 1461.
871
      1871 (Watts), [4]+524 pp., 29 pl.
         Same, 42d Cong., 2d sess., H. ex. doc. [327]; serial no. 1522.
         Same, without accompanying documents. 42d Cong., 2d sess., H. ex.
            doc. 1, p. 145; serial no. 1502.
872
      1872 (Watts), 524 pp., 12 pl (Not issued in Congressional set.)
      1873 (Watts), 496 pp., 1 pl. [Erroneously assigned serial no. 1616, but
873
            never issued in Congressional set.]
      1874 (Watts), 463 pp., 9 pl.
874
         Same, 43d Cong., 2d sess., H. ex. doc. unnumbered; serial no. 1652.
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1875 (Watts), 536 pp., 61 pl. (Not issued in Congressional set.)

### **Tables**

### Classification no.

### A1. SECRETARY—Continued

MUE AV.	
A1.1:	Annual reports—Continued
876	1876 (Watts), 447 pp., 15 pl. (Not issued in Congressional set.)
877	1877 (Le Duc), 592+[1] pp., 54 pl. (Not issued in Congressional set.)
	See for supplemental report, 1877, A1.2:An71
878	1878 (Le Duc), 608+[1] pp., 59 pl. (Not issued in Congressional set.)
879	1879 (Le Duc), 621 pp., 67 pl. (Not issued in Congressional set.)
880	1880 (Le Duc), 672 pp., 136 pl.
	Same, preliminary report, 46th Cong., 3d sess., S. ex. doc. 27; serial
001 0	no. 1941.
881-2	1881 and 1882 (Loring), 704 pp., 85 pl.
883	Same, 47th Cong., 1st sess., H. ex. doc. [228]; serial no. 2034.
000	Same, 47th Cong., 2d sess., H, ex. doc. 109; serial no. 2114.
884	1884 (Loring), 581 pp., 71 pl.
	Same, 48th Cong., 1st sess., H. ex. doc. 178; serial no. 2212.
885	1885 (Colman), 640 pp., 45 pl.
000	Same, 48th Cong., 2d sess., H. ex. doc. 269; serial no. 2309.
886	1886 (Colman), 719 pp., 72 pl.
887	Same, 49th Cong., 1st sess., H. ex. doc. 378; serial no. 2405. 1887 (Colman), 724 pp., 70 pl., 1 map.
007	Same, 49th Cong., 2d sess., H. ex. doc. 201; serial no. 2487.
888	1888 (Colman), 708 pp., 69 pl., 1 map.
	Same, 50th Cong., 1st sess., H. ex. doc. 470; serial no. 2564.
	SECRETARY OF AGRICULTURE
889	1889 (Rusk), 560 pp., 44 pl.
890	Same, 51st Cong., 1st sess., H. ex. doc. 1, pt. 7; serial no. 2732. 1890 (Rusk), 612 pp., 50 pl.
000	Same, 51st Cong., 2d sess., H. ex. doc. 1, pt. 6; serial no. 2847.
891	1891 (Rusk), 653 pp., 59 pl., 1 map.
	Same, 52d Cong., 1st sess., H. ex. doc. 1, pt. 6; serial no. 2940.
892	1892 (Rusk), 656 pp., 71 pl.
009	Same, 52d Cong., 2d sess., H. ex. doc. 1, pt. 6; serial no. 3095.
893	1893 (Morton), 608 pp., 29 pl.   Same, 53d Cong., 2d sess., H. ex. doc. 1, pt. 6; serial no. 3216.
894	1894 (Morton), 120 pp.
	Same, 53d Cong., 3d sess., H. ex. doc. 1, pt. 6; serial no. 3310.
895	1895 (Morton), 266 pp., 1 chart.
900	Same, 54th Cong., 1st sess., H. doc. 6; serial no 3390.
896	1896 (Morton), $li+269$ pp.   Same, 54th Cong., 2d sess., H. doc. 6; serial no. 3496.
897	1897 (Wilson), liv+226 pp.
	Same, 55th Cong., 2d sess., H. doc. 6; serial no 3651.
898	1898 (Wilson), lxiii+212 pp.
000	Same, 55th Cong., 3d sess., H. doc. 6; serial no. 3768.
899	1899 (Wilson), lxx+266 pp.
900	Same, 56th Cong., 1st sess., H. doc. 6; serial no. 3929.   1900 (Wilson), lxxviii-+297 pp.
000	Same, 56th Cong., 2d sess., H. doc. 6; serial no. 4116.
901	1901 (Wilson), cxv+344 pp.
	Same, 57th Cong., 1st sess. H. doc. 6; serial no. 4301.
902	1902 (Wilson), cxxiv+402 pp.
	Same, 57th Cong., 2d sess., H. doc. 6; serial no. 4466.
	See also, for another print of personal report of Secretary, 1902, A1.8:73
A # # a.	
A 1 . L a:	Annual reports (separates; Secretary's report)
	[The personal report of the Secretary is issued separately in pamphlet form in advance of the main volume; is also the first paper in the Yearbook (A1.10:); and
	sometimes appears as a broadside, or as a pamphlet printed on one side of the
	page only, for the use of the press.]
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# A1.1a: Annual reports (separates; miscellaneous)

[Only a small number of the scientific papers accompanying the report of the Secretary are known to have been printed separately. References to all the scientific papers will be found under their proper headings in the index to this work.]

# A1. SECRETARY—Continued

1.1:3	General publications
Ag8 <sup>1</sup>	Agricultural Colleges. List of delegates and visitors to 10th annual convention of Association of American Agricultural Colleges and Experiment Stations. 1896. n. t. p. 3 pp.
Ag82	Agriculture Department. [Letter as to work and needs of Department of Agriculture; by William G. Le Duc.] Feb. 27, 1880. n. t. p. 15 pp.
A ~Q 3	Agriculture Department. Notice of its various functions. 1893. (Circ.)
Ag8 <sup>3</sup>	Angora. Notice of receipt of letter from Minister Terrell relating to
An4	Agriculture in Angora. Nov. 1, 1893. (Circ.)
An5 <sup>1</sup>	Animal Industry Bureau. Proposed bill submitted for consideration and revision, offering amendments to act of May 29, 1884, establishing Bureau of Animal Industry, with view of more effectual control of contagious diseases. n. t. p. n. d. 12 pp. 4°
An5 <sup>2</sup>	Animal Industry Bureau. [Letter of J. M. Rusk relative to establishment of Bureau of Animal Industry, etc.] Apr. 12, 1890. 8 pp.
An71	Annual report of Commissioner of Agriculture (supplemental) to President. Nov., 1877. 19 pp.
An7 <sup>2</sup>	Same, also transmitting special Department reports no. 1 [A1.6:1] and no. 3 [A1.6:3] $19+32+26$ pp.
$Ap4^1$	Apparatus for sale. Jan. 24, 1896. (Circ.)
Ap4 <sup>2</sup>	Appalachian region. Message from President of U. S., transmitting report of Secretary of Agriculture [James Wilson, in collaboration with Department of the Interior], in relation to forests, rivers, and mountains of southern Appalachian region. 1902. 210 pp. 78
	[80] pl. large 8° Same, 57th Cong., 1st sess., S. doc. 84; serial no. 4229.
$Ap6^1$	Appointment clerk, report of. Dec. 1, 1901. n. t. p. 5 pp.
Ap6 <sup>2</sup>	Same; revised. Dec. 1, 1901. n. t. p. 7 pp.
B391	Beet sugar. Special report on beet-sugar industry in U. S. [in 1897]. 1898. 240 pp. 2 maps. Same, 55th Cong., 2d sess., H. doc. 396; serial no. 3691.
B39 <sup>2</sup>	Same, separate, pp. iv+161-233; Beet-sugar industry in U.S. [in 1897], report of special agent Charles F. Saylor.
B393	Same, separate, pp. 135-140, 160; Analyses of sugar beets grown in various States; by H. W. Wiley.
B394	Beet sugar. Progress of beet-sugar industry in U.S. in 1898. 1899. 162 pp. Same, 55th Cong., 3d sess., H. doc. 267; serial no. 3812.
B39 <sup>8</sup>	Beet sugar. Progress of beet-sugar industry in U. S. in 1899; with a supplementary report on cane-sugar industry of Hawaiian Islands. 1900. 200 pp. 4 maps. Same, 56th Cong., 1st sess., H. doc. 699; serial no. 3985.
C291	See also A1.8:69.  Cattle. Reports on diseases of cattle in U. S., made to Commissioner
	of Agriculture, with accompanying documents. 1869. 190 pp. 1 pl.
C29 <sup>2</sup>	Cattle. Report of Commissioner of Agriculture on diseases of cattle in U.S. 1871. [4]+205 pp. 14 pl. 4°
C293	Cattle. Correspondence with S. W. Allerton concerning exportation of Canadian cattle from port of Boston, Mass. Dec. 28, 1896. n. t. p. 11 pp.
C294	Same. (Broadside.)
C29 <sup>5</sup>	Cattle. Results of examinations of fluids of diseased cattle, with reference to presence of cryptogamic growth. 1871. 12 pp. 4° *
C29 <sup>6</sup>	Cattle. Contagious pleuro-pneumonia or lung plague of cattle; where and to what extent it exists. 1870. 17 pp.
C491	Civil service. Letter relative to classified service. Dec. 16, 1895. (Circ.)
C49 <sup>2</sup>	Same. Dec. 1, 1896. (Circ.)
C49 <sup>8</sup>	Civil service. Civil service in [Agriculture] Department. Feb. 29, 1896.
C494	n. t. p. 2 pp. Same. May 14, 1896. n. t. p. 2 pp.

Classification no.

# A1. SECRETARY—Continued

MAR WAT	·
A1.2:	General publications—Continued
C71	Colman, N. J. Report in response to inquiries of select committee of Senate appointed to inquire into and examine the methods of busi-
C76	ness of the Executive Departments. 1888. n. t. p. 106 pp. Convention. Proceedings of National Agricultural Convention held at Washington, Feb. 15–17, 1872. 1872. 84 pp.
	Same, 42d Cong., 2d sess., S. mis. doc. 164; serial no. 1526.
D14 Ex6 <sup>1</sup>	Dairy. Export of dairy products of U.S., 1821–1890. [1890.] (Circ.) * Expenditures. [Relative to restriction of expenditures in Department.] Apr. 6, 1896. (Circ.)
Ex6 <sup>2</sup>	Experiments. Protest against proposed legislation restricting experiments of Department. [With copy of Senate bill 1063.] May 25, 1897. n. t. p. 8+2 pp.
F76	Flax and Hemp Commission. Report of Flax and Hemp Commission [J. K. Moorhead, Jno. A. Warder, and Chas. Jackson], appointed under act of Congress of Feb. 25, 1863. n. p. [1865.] 96 pp. (Cover
	title only.)
H78	Same, 38th Cong., 2d sess., S. ex. doc. 35; serial no. 1209. Horses. Market for American horses in foreign countries. 1898. 94 pp. 6 pl.
H89	Hungarian brome grass. Notice of circular [no. 1, Botany Division] on Hungarian brome grass. June, 1894. (Circ.)
In7	Inspectors. General orders to inspectors [relative to humane treatment of animals]. May 13, 1896. (Circ.)
I <i>A</i> 8	Leave of absence not allowed to employees outside of Washington. Oct. 21, 1896. (Circ.)
N84	Notice of receipt of communications on various subjects. July 7, 1893. (Circ.) *
P53	Philadelphia, Pa. Report of participation of Department of Agriculture in International Exhibition of 1876; by William Saunders. 1884.
P69	Plants. Catalogue of U.S. plants in Department of Agriculture. [186—.]
P94	Promotions. Regulations governing promotions, etc., in Department of Agriculture. Dec. 1, 1896. n. t. p. 3 pp.
P96¹	Publications. General order [relative to] distribution of publications.  Jan. 10, 1896. (Circ.)
P962	Same, Farmers' bulletins. Oct. 15, 1895. 4 pp.
P963	Same, Farmers' bulleting. Feb. 25, 1896. 4 pp.
P964	Same, Farmers' bulletins. May 16, 1896. 4 pp.
P96 <sup>5</sup>	Same, Farmers' bulletins. July 1, 1896. 4 pp.
P96	Same, Farmers' bulletins. Mar. 15, 1897. 4 pp. 4°
P96 <sup>†</sup>	Same, Farmers' bulletins. June 30, 1897. 4 pp. 4°
P96*	Publications. Instructions relating to purchase of publications. Jan. 22, 1896. (Circ.)
R13	Railroad and transportation companies. Circular to railroad and transportation companies relative to prevention of exportation of diseased cattle. Feb. 24, 1890. (Circ.) *
R89	Rusk, Jeremiah M. Annual reports, with selected correspondence, relating to export trade of U.S. in live stock and meat products, of Jere-
	miah M. Rusk, 1889-92. 1893. 40+52+59+64+33 pp.  See also for correspondence A1.8:53.
Sci 11	Scientific work in Department. Recommendation for appointment of
201 -	director in chief of scientific work. Feb. 15, 1896. n. t. p. 3 pp.
Sci 12	Scientific work in Department. Opinions of scientific men and others with regard to proposition for a director in chief of scientific
	bureaus. 1st ed. [1896.] n. t p. 3 pp.
Sci 1 *	Same. 2d ed. [1896.] n. t. p. 8 pp.
Sci 14	Same. 3d ed. [1896.] n. t. p. 16 pp.
Sci 1 <sup>5</sup>	Same, additional opinions. [1896.] n. t. p. 4 pp.
Sci 16	Same, additional resolutions. [1896.] n. t. p. 4 pp.
Sci 17	Same with report of Senate Committee on Agriculture and Forestry.
	[1896.] n. t. p. 12 pp.

Classifica-A1. SECRETARY—Continued tion no. General publications—Continued A1.2: Seed. Relative to status and discontinuance of distribution of seed. July Se3 1 25, 1895. (Circ.) Seed. Opinions of the press concerning free-seed distribution. n. d. Se3 2 n. t. p. 12 pp. Seed. Statement of secretary at joint meeting of Senate and House Com-**Se3** <sup>8</sup> mittees of Agriculture [relative to] free-seed distribution. Jan. 15, 1896. n. t. p. 8 pp. Seed. Proposals for furnishing seed. Mar. 18, 1896. (Slip.) Se3<sup>4</sup> Seed. Statement in regard to award of seed contract. Apr. 16, 1896. Se3 <sup>5</sup> n. t. p. 8 pp. Seed. Prohibiting use of Government seed envelopes by unauthorized Se3 6 parties. May 2, 1896. (Circ.) Se3 7 Seed. Cost of seed distribution. Jan. 30, 1897. n. t. p. 3 pp. Seed. Brief instructions in regard to sowing seeds and raising young **Se3** <sup>8</sup> plants of forest trees. n. d. 5 pp. Sheep husbandry in U.S. Origin and growth of sheep husbandry in Sh3 U. S., with some remarks on angora fleece. 1880. [1]+133 pp. 4 pl. Same, 45th Cong., 3d sess., S. ex. doc. 25; serial no. 1828. Societies. List of agricultural and horticultural societies in U.S. 1869. \* Sol Specifications of workmanship and materials required in erection and  $\mathbf{Sp3}$ completion of new building for accommodation of Department of Agriculture in Washington, D. C.; prepared by Cluss & Kammerhueber. 1867. 26+2 pp. Sugarhouse machinery for sale July 1, 1895. n. t. p. 8 pp. 4° Su3 Traveling expenses. Allowances for traveling expenses. Oct. 1, 1889. **T69** 1 8 pp. Same. July 1, 1893. 11 pp. T69<sup>2</sup> **V67 27**, 1893. (Circ.) **W69** 

Vienna. Notice relating to International Exhibition, Vienna, 1894. Nov. Wilson, James. Speech by James Wilson, Secretary of Agriculture, delivered July 7, 1902, at School of Agriculture, Columbus, Ohio. July

17, 1902. n.t.p. 6 pp. Wools. Report upon examination of wools and other animal fibers; by William McMurtrie. 1886. 613 pp. 72 pl. 4°

Same, 49th Cong., 1st sess., H. mis. doc. 392. Serial no. 2426.

### A1.3: Bulletins

**W88** 

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None issued.

### A1.4: Circulars

[No. 1.] Statement in regard to award of seed contract. Apr. 16, 1896. 1 n. t. p. 8 pp.

[No. 2.] Vivisection in District of Columbia. May 16, 1896. n. t. p. 8 pp. No. 3. Address on progress of Southern agriculture; by Charles W.

Dabney. June 1, 1896. n. t. p. 12 pp.

No. 4. [Letter of protest and appeal to persons interested in animal industry, accompanying a draft of Senate bill 1552, 54th Cong., 4 1st sess., entitled "An act for the further prevention of cruelty to animals in District of Columbia."] June 5, 1896. n. t. p. 3 pp. 5

No. 5. Civil service in Department of Agriculture. June 20, 1896. n. t. p. 4 pp.

No. 6. Number, status, and compensation of employees in Department of Agriculture, July 1, 1897. Jan. 20, 1898. n. t. p. 4 pp.

No. 7. Possible influence of importation of Hawaiian sugar on beet-sugar production in United States. Jan. 17, 1898. n. t. p. 4 pp.

No. 8. [Cooperative work in grass and forage plant investigations with State experiment stations; by T. A. Williams.] Nov. 20, 1900. n. t. p. 14 pp.

Same, revised. [1901.] n. t. p. 16 pp.

82 No. 9. [Collection and distribution of grass seed: field work; by C. L. 9 Shear.] Dec. 10, 1900. n. t. p. 11 pp.

\*No copy found.

34

51 pl.

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tion no.
A1.5: | Miscellaneous circulars
         No. 1. Castor-oil plant. n. d. n. t. p. 4 pp.
         No. 2. Mississippi River flood. Apr. 12, 1897. n. t. p. 6 pp.
    2
         No. 3. Mississippi River flood, 2d report. Apr. 22, 1897. n. t. p.
                                                                              4 pp.
A1.6:
         Special reports
         No. 1. Condition and prospects of cane-sugar industry in U.S. 1877.
    1
            See also A1.2:An72
         No. 2. Condition of crops, etc. 1877. (In A27.9:15.)
       No. 3. Thea viridis or Chinese tea-plant, and practicability of its culture
               and manufacture in U.S. Also some remarks on cultivation of Coffee
               plant. 1877. 26 pp.
            See also A1.2:An7<sup>2</sup>
         No. 4. Cultivation of fig, and method of preparing the fruit for commerce;
               also report on importance of cultivation of date palm. 1878, 17 pp.
         No. 5. Condition of crops, June 1, 1878. (In A27.9:16.)
         No. 6. Condition of crops, July 1, 1878. (In A27.9:16.)
         No. 7. Condition of crops, Aug. 1, 1878. (In A27.9:16.)
         No. 8. Condition of crops, Sept. 1, 1878. (In A27.9:16.)
         No. 9. Condition of crops, Dec. 1, 1878. (In A27.9:16.)
         No. 10. Condition of crops, and live stock, Jan., 1879. (In A27.9:17.)
   111
         No. 11. The silk-worm; being brief manual of instruction for production
               of silk. [By C. V. Riley.] 1879. 31 pp.
            Same; by C. V. Riley, 2d edition. 1882. 37 pp.
   11 2
   118
            Same, 3d edition.*
   114
            Same, 4th edition.
                                 1883.
                                        37 pp.
   115
            Same, 5th edition. 1884. 37 pp.
   12
         No. 12. Investigation of diseases of swine, and infectious and contagious
               diseases incident to other classes of domesticated animals. 1879.
               292 pp. 17 pl.
         No. 13. Condition of crops and live stock, Apr., 1879. (In A27.9:17.)
         No. 14. Condition of crops and live stock, June, 1879. (In A27.9:17.)
         No. 15. Condition of crops, July 1, 1879. (In A27.9:17.)
No. 16. Condition of crops, Aug. 1, 1879. (In A27.9:17.)
         No. 17. Condition of crops, Sept. 1, 1879. (In A27.9:17.)
   18
         No. 18. Tea-culture as a probable American industry; by William Saunders.
               Read before New York Horticultural Society, at its meeting, Oct. 7,
               1879. 1879. 21 pp.
         No. 19. Condition of crops, Nov. 1, 1879. (In A27.9:17.)
         No. 20. Condition of crops, Dec. 1, 1879. (In A27.9:17.)
         No. 21. Number and prices of farm animals, Jan. 1, 1880. (In A27.9:18.)
   22
         No. 22. Contagious diseases of domesticated animals; continuation of
               investigation by Department of Agriculture. 1880. 268 pp. 15 pl.
               1 map.
         No. 23. Condition of crops, Apr., 1880. (In A27.9:18.)
         No. 24. Condition of crops, June and July, 1880. (In A27.9:18.)
         No. 25. Condition of crops, Aug., 1880. (In A27.9:18.)
         No. 26. Culture of sumac in Sicily, and its preparation for market in
   26
              Europe and U.S.; by William McMurtrie. 1880. 32 pp.
         No. 27. Condition of crops, Sept., 1880. (In A27.9:18.)
   28
         No. 28. Culture of sugar beet and manufacture of sugar therefrom in France
               and U.S.; by William McMurtrie. 1880. 294 pp. 32 pl. 4 maps.
            [Extensively quoted in Bulletin No. 26, Chemistry Bureau. Sec A8.3:26.]
         No. 29. Condition of crops, Nov. 1, 1880. (In A27.9:18.)
         No. 30. Condition of crops, Dec. 1, 1880. (In A27.9:18.)
         No. 31. Contagious pleuro-pneumonia; 3d report of Charles P. Lyman.
   31
               1881. 20 pp. 7 pl.
         No. 32. Condition of crops and live stock, Apr., 1881. (In A27.9:19.)
   33
         No. 33. Analytical work done on sorghum and cornstalks by Chemical
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\* No copy found.

No. 34. Contagious diseases of domesticated animals.

division, July-Dec., 1880; by Peter Collier. 1881. 101 pp. 27 pl.

1881.

**55** 

### A1. SECRETARY—Continued

### A1.6: | Special reports—Continued

No. 35. Insects injurious to sugar cane; by J. Henry Comstock. 1881.

No. 36. Report upon statistics of grape culture and wine production in U.S. for 1880; by William McMurtrie. 1881. 104 pp.

No. 37. Condition of crops, June–July, 1881. (In A27.9:19.)

No. 38. Condition of crops, Aug. 1, 1881. (In A27.9:19.)

No. 39. Condition of crops, Sept. 1, 1881. (In A27.9:19.)

No. 40. Condition and needs of spring wheat culture in Northwest; by C. C. Andrews. 1882. 99 pp.

No. 41. Report upon estimated production of cereals of U.S., for year 1881. [February, 1882.] 1882. (In A27.9:20.)

No. 42. Condition of winter grain, etc., Apr., 1882. (In A27.9:20.)

No. 43. Condition of winter grain, etc., May, 1882. (In A27.9:20.)

No. 44. Acreage and condition of cotton, etc., June, 1882. (In A27.9:20.)

No. 45. Area and condition of corn, etc., July, 1882. (In A27.9:20.)
No. 46. Condition of corn and cotton, etc., Aug., 1882. (In A27.9:20.)

No. 47. Climate, soil, and agricultural capabilities of South Carolina and Georgia; by J. C. Hemphill. 1882. 65 pp.

48 No. 48. Silos and ensilage; a record of practical tests in several States and Canada. 1882. 70 pp.

No. 49. Condition of corn and cotton, etc., Sept., 1882. (In A27.9:20.)

No. 50. Dissemination of Texas fever of cattle, and how to control it.

1882. 14 pp.

No. 51. Yield and quality of small grain, etc. 1882. (In A27.9:20.) No. 52. Yield per acre of cotton, corn, potatoes, etc. Nov., 1882. (In

A27.9:20.)
No. 53. Product and price of principal crops of 1882. 1882. (In

A27.9:20.)

No. 54. Address of Geo. B. Loring [on sorghum sugar industry] before Mississippi Valley Cane-Growers' Association, St. Louis, Mo., Dec.

14, 1882. 1883. 19 pp.
No. 55. Grange: its origin, progress, and educational purposes, by D.
Wyatt Aiken; read before a convention called by Commissioner of
Agriculture January 23, 1883, to consider subject of agricultural
education. 1883. 18 pp.

No. 56. Numbers and values of farm animals, Feb., 1883. (In A27.9:21.)

No. 57. Distribution, etc., of corn and wheat, Mar., 1883. (In A27.9:21.)
No. 58. Area and condition of winter wheat, etc., Apr., 1883. (In A27.9:21.)

No. 59. Condition of winter grain, etc., May, 1883. (In A27.9:21.)

No. 60. Acreage of spring grain and cotton, etc., June, 1883. (In A27.9:21.)

No. 61. Area of corn, potatoes, and tobacco, etc., July, 1883. (In A27.9:21.)

62 No. 62. Observations on soils and products of Florida; by William Saunders. 1883. 30 pp.

No. 63. Grasses of U. S.; being a synopsis of tribes and genera, with descriptions of genera, and list of species; by Geo. Vasey. 1883. 47 pp.

No. 64. Condition of crops, etc., Aug., 1883. (In A27.9:21.) No. 65. Condition of crops, Sept., 1883. (In A27.9:21.)

[Series discontinued. Statistical matter of like character published after this date in Statistical report, Statistics division. A27.9:]

### A1.7: Miscellaneous special reports

No. 1. Address of Geo. B. Loring before American Forestry Congress, St. Paul, Minn., Aug. 8, 1883 [on Forestry in U. S.] 1883. 41 pp.

No. 2. Proceedings of [2d] convention of agriculturists, held at Department of Agriculture, Jan. 23-29, 1883. 1883. 245 pp.

No. 3. Mississippi: its climate, soil, productions, and agricultural capabilities; by A. B. Hurt. 1884. 89 pp.

4 No. 4. Climate, soil, physical resources, and agricultural capabilities of Maine, with special reference to occupation of its new lands; by Samuel L. Boardman. 1884. 60 pp.

Classification no.

5

### A1. SECRETARY—Continued

### A1.7: | Miscellaneous special reports—Continued

- No. 5. Proper value and management of Government timber lands, and distribution of North American forest trees, being papers read at U. S. Department of Agriculture, May 7-8, 1884. 1884. 47 pp.
- 8 No. 6. Address of Geo. B. Loring at National Convention of Cattle-Breeders, Chicago, Ill., Nov. 13, 1884 [on the cattle industry]; also report of veterinary inspectors of New York. 1884. 21 pp.
- 7 No. 7. Tide marshes of U. S., by D. M. Nesbit; with contributions from U. S. Coast Survey, S. L. Boardman, Eldridge Morse, and others. 1885. 259 pp.
- 8 No. 8. Cotton in Empire of Brazil; antiquity, methods, and extent of its cultivation, with statistics of exportation and home consumption; by John C. Branner. 1885. 79 pp.
- No. 9. Proceedings of convention of delegates from agricultural colleges and experiment stations, held at Department of Agriculture, July 8 and 9, 1885. 1885. 196 pp.
- No. 10. Descriptive catalogue of manufactures from native woods as shown in exhibit of U. S. Department of Agriculture at World's Industrial and Cotton Exposition at New Orleans, La.; by Charles Richards Dodge. 1886. 84 pp.

[Series discontinued.]

### A1.8: [Department] reports

- [Nos. 1-58 were issued, 1862-1898, without numbers. A list of titles and assigned numbers for this series was printed on cover pages 3 and 4 of No. 59, which was the first to bear a number. A reprint of No. 58, in 1901, bore the number, though the old imprint date, 1898, was retained.]
- [No. 1.] Circular from Commissioner of Agriculture on present agricultural, mineral, and manufacturing conditions and resources of U. S.; [by Isaac Newton]. 1862. 8 pp.
- 2 [No. 2.] Catalogue of plants, bulbs, tubers, etc., for distribution from U.S. propagating garden, with report on object and aims of garden; by William Saunders. 1862. 8 pp.

[Said to be the first publication issued by the Department of Agriculture.]

- 3 [No. 3.] Chemical analysis of grapes; by Charles M. Wetherill. 1862.
  6 pp. \*
  4 [No. 4.] List of agricultural, horticultural, and pomological societies and
  - [No. 4.] List of agricultural, horticultural, and pomological societies and farmers' clubs, etc., on books of Department of Agriculture, July 1, 1870, etc. 1870. 47 pp. \*
- [No. 5.] List of agricultural colleges and farmers' clubs and agricultural, horticultural, and pomological societies on books of Department of Agriculture, June 1, 1872, with name of president and secretary of each. 1872. 66 pp.
- 6 [No. 6.] Descriptive catalogue of plants in exotic collection of the Department of Agriculture; by William Saunders. 1872. 51 pp.
- 7 [No. 7.] Department of Agriculture: its history and objects; by James M. Swank. 1872. 64 pp. 12°.
- 8 [No. 8.] Culture and manufacture of ramie and jute in U. S.; by Emile Lefranc. 1873. 19 pp.
- 9 [No. 9.] Eucalyptus globulus from a botanic, economic, and medical point of view, embracing its introduction, culture, and uses; translated from the French of J. E. Planchon. 1875. 20 pp. 1 pl.
- [No. 10.] Planter's guide for cultivating and curing tobacco, with information and instruction concerning the Shelton tobacco-hanger; prepared by Shelton Tobacco-Curing Co., of Asheville, N. C. 1876. 24 pp.
- [No. 11.] Catalogue of forest trees of U. S. which usually attain height of 16 feet or more, with notes and brief descriptions of more important species, illustrating collection of forest-tree section on exhibition by Department of Agriculture at Centennial Exhibition, Philadelphia; by George Vasey. 1876. 38 pp.
- [No. 12.] List of agricultural societies and farmers' clubs established to promote the agricultural, horticultural, and pomological interests of the farmer on books of Department, July 4, 1876, with list of agricultural colleges. 1876. 63 pp.

\* No copy found.

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# A1. SECRETARY—Continued

A1.8	[Department] reports—Continued
13	[No. 13.] Statement of appropriations and expenditures of the Department, 1839 to 1877, inclusive. 1877. 18 pp.
14	[No. 14.] General index of agricultural reports of Patent Office, 1837–1861, and of Department of Agriculture, 1862–1876. 1879. 225 pp.
15	See for supplement, 1877–1885, A1.8:42. [No. 15.] Circular letter from Commissioner of Agriculture relative to
16	manufacture of maize and sorghum sugars. 1879. 21 pp. [No. 16.] Letter of Commissioner of Agriculture to Jno. W. Johnston, chairman of Senate Committee on Agriculture, on sorghum sugar
17	[by W. G. LeDuc]. 1880. 42 pp. 33 pls. 1 folded table. [No. 17.] Address of Geo. B. Loring and other proceedings of Cotton Convention held in Atlanta, Ga., Nov. 2, 1881. 1881. 35 pp.
18	[No. 18.] Fertilizers. Cooperative experimenting as means of studying effects of fertilizers and feeding capacities of plants; by W. O.
19	Atwater. 1882. 33 pp. [No. 19.] Artesian wells upon Great Plains; being report of geological commission appointed to examine a portion of Great Plains east of Rocky Mountains, and report upon localities deemed favorable for making experimental borings [by C. A. White and Samuel
20	Aughey]. 1882. 38 pp. 1 map. [No. 20.] Climatic and agricultural features, and agricultural practices and needs of arid regions of Pacific slope, with notes on Arizona and New Mexico; by E. W. Hilgard, T. C. Jones, and R. W. Furnas. 1882. 182 pp.
21	[No. 21.] Florida: its climate, soil, productions, and agricultural capabilities [papers by George B. Carse and James H. Foss]. 1882. 98 pp.
22	[No. 22.] Proceedings of convention of agriculturists held in Department of Agriculture, Jan. 10–18 [1882]. 1882. 204 pp.
23	[No. 23.] Area and product of cereals grown in 1879 as returned by census of 1880. 1883. 97 pp.
24	[No. 24.] Culture of date; by W. G. Klee. 1883. 25 pp.
25	[No. 25.] Necessity of agricultural education. Address before convention of presidents and professors of agricultural colleges, etc.; by Augustine J. Smith, Jan. 23, 1883. 1883. 15 pp. *
26	[No. 26.] Encouragement to sorghum and beet sugar industry. 1883. 64 pp.
27	[No. 27.] Investigation of sorghum as sugar-producing plant; [by] Peter Collier. 1883. 68 pp. 1 pl. 3 tables.
<b>28</b>	[No. 28.] Preliminary report on forestry of Mississippi Valley, [by F. P. Baker]; Tree planting on plains, [by Robert W. Furnas]. 1883. 45 pp.
29	[No. 29.] Proceedings of national convention of cattle breeders and others, called in Chicago, Nov., 1883, to consider subject of contagious diseases of domestic animals. 1883. 85 pp.
30	[No. 30.] Report on jute culture and importance of the industry; by S. Waterhouse. 1883. 21 pp.
31	[No. 31.] Results of field experiments with various fertilizers; by W. O. Atwater. 1883. 183 pp. 2 folded tables.
321	[No. 32.] Agricultural grasses and forage plants of U.S., by Geo. Vasey; also the chemical composition of grasses, by Clifford Richardson. 1884. 144 pp. 120 pl.
32 2	[No. 32 rev.] Agricultural grasses and forage plants of U. S., and such foreign kinds as have been introduced by Geo. Vasey, botanist, with an appendix on chemical composition of grasses, by Clifford Richardson, and glossary of terms used in describing grasses. New revised and enlarged edition. 1889. 148 pp. 114 pl.
<b>3</b> 3	[No. 33.] Report of proceeding of national convention of cattle breeders and others, Chicago, Nov. [1884]. 1884. 21 pp. *
34	[No. 34.] Microscopic observations; by Thomas Taylor. Internal parasites in domestic fowls, and butter and fats. 1884. 7 pp. 1 pl.
<b>35</b>	[No. 35.] Soils and products of southwestern Louisiana, including parishes of Saint Landry, Lafayette, Vermilion, Saint Martins, Iberia, and Saint Marys; [by E. E. Rapley]. 1884. 40 pp.

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tion no.	AI. SECRETARY—Continued
A1.8:	[Department] reports—Continued
36	[No. 36.] Organization and management of seven agricultural schools in Germany, Belgium, and England; by A. S. Welch. 1885
37	107 pp. [No. 37.] Address of Norman J. Colman, Commissioner of Agriculture before convention of agricultural colleges and experiment stations. Washington, D. C., July 8, 1885. 1885. 17 pp.
<b>3</b> 8	[No. 38.] Addresses of Norman J. Colman and D. E. Salmon, before third national convention of stockmen, Chicago, Nov., 1885. 1885. 29 pp.
39	[No. 39.] Directory of departments, boards, societies, colleges, and other organizations in interest of agriculture, horticulture, stock raising, dairying, bee keeping, fish culture, and kindred industries. 1885.
40	88 pp. [No. 40.] Report of exhibits illustrating agricultural statistics at World's Industrial and Cotton Exposition, New Orleans, La.; by J. R.
41	Dodge. 1885. 42 pp. 27 diagrams. [No. 41.] Report on condition of dairying in principal dairy States for season of 1885. 1886. 35 pp.
42	[No. 42.] Supplement to general index of agricultural reports, 1877 to 1885. 1886. 113 pp.
43	See for general index A1.8:14. [No. 43.] Addresses of Norman J. Colman and D. E. Salmon, before national cattle growers' convention, Kansas City, Mo., Oct. 31 and
44	Nov. 1 and 2, 1887. 1887. 11 pp.  [No. 44.] Rules and regulations of U.S. Department of Agriculture for suppression and extirpation of all contagious, infectious, and communicable diseases among demostic animals of U.S. The Norman
45	municable diseases among domestic animals of U. S.; [by Norman J. Colman]. 1887. n. t. p. 7 pp.  [No. 45.] Association of American Agricultural Colleges and Experiment Stations convention held in Washington, D. C., Oct., 1887. Report of committee on station work. W. O. Atwater, S. W. Johnson,
46	Geo. H. Cook, committee. 1888. 32 pp. [No. 46.] Hog cholera: its history, nature, and treatment as determined by inquiries and investigations of Bureau of Animal Industry; [by D. E. Salmon]. 1889. 197 pp. 16 pl.
47	[No. 47.] Catalogue of economic plants in collection of Department of Agriculture; by William Saunders. 1891. 42 pp.
<b>4</b> 8	[No. 48.] Papers on horticultural and kindred subjects; by William Saunders. Reprinted from reports of Department of Agriculture, 1863–1889. 1891. 124 pp.
491	[No. 49.] Report on use of maize (Indian corn) in Europe and on possibilities of its extension; 1. Introduction of maize into Europe, by Charles J. Murphy; 2. Food value of maize, by H. W. Wiley; 3. Indian corn industry in United States, by B. W. Snow. 1891.
49 2	36 pp. Same, in French (with omission of article by Charles J. Murphy). 1892. 22 pp.
49³	Same, in German (with omission of article by Charles J. Murphy, and addition of recipe for "Murphy-brod"). 1892. 23 pp.
494	
495	Same, in Spanish (with omission of article by Charles J. Murphy). 1892. 24 pp.
50	[No. 50.] Progress report on dairy industry of Denmark; by C. C. Georgeson. [1893.] 14 pp.
51	[No. 51.] Studies of parasitic and predaceous insects in New Zealand, Australia, and adjacent islands; by A. Koebele. 1893. 39 pp.
52¹	[No. 52.] Indian corn (or maize) in manufacture of beer; by Robert Wahl. 1893. 21 pp.
52 <sup>2</sup> 53	Same, German. 1893. 22 pp. [No. 53.] Selected correspondence relating to export trade in live stock and meat products; [by J. M. Rusk. 1893.] 33 pp.
	See also A1.2:R89.

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A1.8:	[Department] reports—Continued
54	[No. 54.] Suggestions regarding cooking of food; by Edward Atkinson; with introductory statements regarding nutritive value of common food materials; by Ellen H. Richards. 1894. 31 pp.
<b>55</b>	[No. 55.] List of publications of U. S. Department of Agriculture, 1889–93, inclusive. 1894. 42 pp.
56¹	[No. 56.] Arbor day; its history and observance; by N. H. Egleston. 1896. 80 pp.
56°	Same, rev. ed. 1896. 80 pp. [No. 57.] Proceedings of National convention for suppression of insect
57	pests and plant diseases by legislation, held at Washington, D. C., Mar. 5 and 6, 1897; edited by B. T. Galloway. 1897. 31 pp.
58 ¹	[No. 58.] Cultivation of tobacco in Sumatra; by Emile Mulder. 1898. 39 pp. 1 pl.
58 <sup>3</sup>	No. 58. Same. 1898 [1901]. 39 pp. 1 pl.
59	No. 59. Curing and fermentation of cigar-leaf tobacco; by Oscar Loew. 1899. 34 pp.
60	No. 60. Temperature changes in fermenting piles of cigar-leaf tobacco; by Milton Whitney and Thos. H. Means. 1899. 28 pp.
<b>61</b>	No. 61. Tea culture: the experiment in South Carolina; by Charles U. Shepard. 1899. 27 pp. 9 pl.
62	No. 62. Cultivation of cigar-leaf tobacco in Florida; by Marcus L. Floyd. 1899. 31 pp. 8 pl.
63	No. 63. Work of agricultural experiment stations on tobacco; abstracted by J. I. Schulte, with introduction and comments by Milton Whitney. 1900. 48 pp.
64 ¹	No. 64. Field operations of Division of Soils, 1899, by Milton Whitney; with accompanying papers by Thomas H. Means, Frank D. Gardner, Clarence W. Dorsey, Frank K. Cameron, Lyman J. Briggs. 1900. 198 pp. 29 pl.
64 2	Same. Maps. 11 maps in cloth folder (octavo).  Same, with maps, 56th Cong., 1st sess., H. doc. 399; serial no. 3985.  [For subsequent editions see A26.5:]
65	No. 65. Physiological studies of Connecticut leaf tobacco; by Oscar Loew. 1900. 57 pp.
66	No. 66. Sheep and wool, a review of progress of American sheep husbandry; by J. R. Dodge. 1900. 63 pp.
67	No. 67. Foreign markets for American agricultural products; testimony of Frank H. Hitchcock before Industrial Commission. 1901. 53 pp.
68	No. 68. Catalase, a new enzym of general occurrence, with special reference to tobacco plant; by Oscar Loew. 1901. 47 pp.
69	No. 69. Progress of beet-sugar industry in U.S. in 1900. 1901. 178 pp. See also A1.2:B39 and A1.8:72.
70	No. 70. Exhaustion and abandonment of soils; testimony of Milton Whitney before Industrial Commission. 1901. 48 pp.
71	No. 71. Some mutual relations between alkali soils and vegetation; by Thomas H. Kearney and Frank K. Cameron. 1902. 78 pp.
72	No. 72. Progress of beet-sugar industry in U.S. in 1901. 1902. 106 pp. 15 pl.
73	Same, 57th Cong., 1st sess., S. doc. 316; serial no. 4241.  See also A1.2:B39 and A1.8:69.  No. 73. Report of Secretary of Agriculture, 1902. 1902. 96 pp.  See also other prints A1.1:902.
A1.9:	Farmers' bulletins
1	No. 1. What and why of agricultural experiment stations. 1889. 16 pp.
2 3	No. 2. Work of agricultural experiment stations. 1890. 16 pp.
3	No. 3. Culture of sugar beet; by H. W. Wiley. 1891. 24 pp.
4	No. 4. Fungous diseases of grape and their treatment; by B. T. Galloway. 1891. 12 pp.
5	No. 5. Treatment of smuts of oats and wheat. 1892. 8 pp. 1 pl.
6	No. 6. Tobacco, instructions for its cultivation and curing; by John M. Estes. 1892. 8 pp.

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tion no.	
A1.9:	Farmers' bulletins—Continued
7 1	No. 7. Spraying fruits for insect pests and fungous diseases, with special consideration of subject in its relation to public health. 1892.
72	20 pp. No. 7 [partial reprint]. Spraying for fungous diseases of apple, pear, and other fruits. 1895. 14 pp.
8	No. 8. Results of experiments with inoculation for prevention of hog cholera; by D. E. Salmon, 1892. 40 pp.
9	No. 9. Milk fermentations and their relations to dairying. 1892. 24 pp.
10	No. 10. Russian thistle and other troublesome weeds in wheat region of Minnesota and North and South Dakota. 1893. 16 pp. 2 pl.
11	No. 11. Rape plant, its history, culture, and uses; by Thomas Shaw. 1893.  20 pp.
12	No. 12. Nostrums for increasing yield of butter; by Harvey W. Wiley. 1893. 16 pp.
13	No. 13. Cranberry culture; by William Saunders. 1894. 16 pp.
14	No. 14. Fertilizers for cotton; by J. M. McBryde. 1894. 32 pp.
15	No. 15. Some destructive potato diseases, what they are and how to prevent them; by B. T. Galloway. 1894. 8 pp.
16	No. 16. Leguminous plants for green manuring and feeding; by E. W. Allen. 1894. 24 pp.
17	No. 17. Peach yellows and peach rosette; by Erwin F. Smith. 1894. 20 pp.
18 i	No. 18. Forage plants for the South; by S. M. Tracy. 1894. 30 pp.
18 <sup>2</sup>	Same, with list of Farmers' bulletins. 1897. 31 pp.
191	No. 19. Important inspecticides, directions for their preparation and use; by C. L. Marlatt. 1894. 20 pp.
19 2	Same, rev. ed. 1895. 23 pp.
19 8	Same, [reprint, 1897]. 24 pp.
194	Same, 3d rev. ed. 1897. 32 pp.
195	Same, 4th rev. ed. 1898. 32 pp.
20	No. 20. Washed soils: how to prevent and reclaim them. 1894. 22 pp.
21	No. 21. Barnyard manure; by W. H. Beal. 1894. 32 pp.
22 1	No. 22. Feeding of farm animals; by E. W. Allen. 1895. 32 pp.
22 2	Same, rev. 1897. 32 pp.
22 <sup>8</sup>	Same, rev. ed. 1901. 44 pp.
23	No. 23. Foods: nutritive value and cost; by W. O. Atwater. 1894. 32 pp.
24	No. 24. Hog cholera and swine plague; by D. E. Salmon. 1894. 16 pp.
25 ¹	No. 25. Peanuts: culture and uses; by R. B. Handy. 1895. 24 pp.
25 <sup>2</sup> 26 <sup>1</sup>	Same [new ed.] 1896. 24 pp.
26 <sup>2</sup>	No. 26. Sweet potatoes, culture and uses; by J. F. Duggar. 1895. 30 pp. Same [reprinted]. 1897. 30 pp.
26 s	Same, revised. 1900. 32 pp.
<b>27</b>	No. 27. Flax for seed and fiber in U. S.; by Chas. Richards Dodge. 1895. 16 pp.
28¹	No. 28. Weeds, and how to kill them; by Lyster H. Dewey. 1895. 31 pp.
28 2	Same, [reprint, 1898]. With list of Farmers' bulletins. 32 pp.
28 3	Same, revised edition. 1902. 31 pp.
29	No. 29. Souring of milk and other changes in milk products. 1895. 23 pp.
30	No. 30. Grape diseases on Pacific coast; by Newton B. Pierce. 1895. 15 pp.
31 1	No. 31. Alfalfa, or lucern; [by] Jared G. Smith. 1895. 23 pp.
31 2	Same, rev. ed. 1898. 23 pp.
31 8	
32	No. 32. Silos and silage; by Charles S. Plumb. 1895. 31 pp.
33 1	No. 33. Peach growing for market; by Erwin F. Smith. 1895. 24 pp.
33 2	Same [2d ed.] 1895 [1897]. 24 pp.
34	No. 34. Meats: composition and cooking; by Chas. D. Woods. 1896. 29 pp.
35	No. 35. Potato culture; by J. F. Duggar. 1896. 23 pp.
36	No. 36. Cotton seed and its products. 1896. 16 pp.
37 1	No. 37. Kafir corn, characteristics, culture, and uses; by C. C. Georgeson. 1896. 12 pp.
37 2	Same, [reprint, different illustrations, p. 12 extended]. 1896 [1897]. 12 pp.

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Farmers' bulletins—Continued
A1.9: |
   38
         No. 38. Spraying for fruit diseases; by B. T. Galloway. 1896. 12 pp.
   39
         No. 39. Onion culture; by R. L. Watts. 1896. 31 pp.
   40¹
         No. 40. Farm drainage; by C. G. Elliott. 1896. 24 pp.
   40°
            Same, rev. 1899. 24 pp.
         No. 41. Fowls: care and feeding; by G. C. Watson.
   41
                                                               1896. 24 pp.
         No. 42. Facts about milk; by R. A. Pearson. 1896. 29 pp.
   42
   43
         No. 43. Sewage disposal on farm, and protection of drinking water; by
                Theobald Smith. 1896. 20 pp.
   44 <sup>1</sup>
         No. 44. Commercial fertilizers, composition and use; by Edward B. Voor-
               hees. 1896. 24 pp.
   44 <sup>2</sup>
            Same, [2d print, with changes]. Sept. 1896. 24 pp.
         No. 45. Some insects injurious to stored grain; by F. H. Chittenden.
   45<sup>1</sup>
               1896. 24 pp.
            Same, rev. ed. 1897. 24 pp.
   45°
         No. 46. Irrigation in humid climates; by F. H. King. 1896. 27 pp.
   46
         No. 47. Insects affecting cotton plant; by L. O. Howard. Reprinted, with
   47
               revision by author, from Bulletin 33, Office of Experiment Stations.
               1897. 32 pp.
         No. 48. Manuring of cotton; condensed from article by H. C. White, in
   48
               Bulletin no. 33 of Office of Experiment Stations. 1897. 16 pp.
         No. 49. Sheep feeding; by John A. Craig. 1897. 24 pp.
   49
   50<sup>1</sup>
         No. 50. Sorghum as a forage crop; by Thomas A. Williams. 1897. 20 pp.
   50°
            Same, rev. 1899. 20 pp.
   51 <sup>1</sup>
         No. 51. Standard varieties of chickens; by George E. Howard. 1897. 48 pp.
   51<sup>2</sup>
            Same, [2d ed.] rev. 1897. 48 pp.
   51 <sup>8</sup>
            Same, [3d ed.] rev. 1899. 48 pp.
   52¹
         No. 52. Sugar beet, culture, seed development, manufacture, and sta-
               tistics; by H. W. Wiley. 1897. 48 pp.
   52°
            Same, rev. 1899. 48 pp.
   52<sup>8</sup>
            Same, 2d rev. ed. [statistical matter revised]; by G. L. Spencer.
               1901. 48 pp.
   53
         No. 53. How to grow mushrooms; by William Falconer. 1897. 20 pp.
   54<sup>1</sup>
         No. 54. Some common birds in their relation to agriculture; by F. E. L.
               Beal. 1897. 40 pp.
   54<sup>2</sup>
            Same, rev. 1898. 40 pp.
  55
         No. 55. Dairy herd, its formation and management; by Henry E. Alvord.
               Reprinted, with revision by author, from Yearbook for 1894. 1897.
               24 pp.
  56
         No. 56. Experiment station work, 1. 1897. 31 pp.
            See also A10.11:1.
  57<sup>1</sup>
         No. 57. Butter making on the farm; by C. P. Goodrich. 1897. 15 pp.
  57<sup>3</sup>
            Same, 2d print. 1897 [1898]. 16 pp.
  58<sup>1</sup>
        No. 58. Soy bean as a forage crop, by Thomas A. Williams; with appendix
               on soy beans as food for man, by C. F. Langworthy. 1897. 24 pp.
  58 <sup>2</sup>
            Same, rev. 1897. 24 pp.
  58<sup>3</sup>
            Same, rev. 1899. 24 pp.
        No. 59. Bee keeping; by Frank Benton. 1897. 32 pp.
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                                                                      1897. 16 pp.
        No. 60. Methods of curing tobacco; by Milton Whitney.
  60 <sup>1</sup>
  60 <sup>3</sup>
            Same, rev. ed. 1898. 16 pp.
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            Same, 2d rev. ed. 1902. 24 pp.
        No. 61. Asparagus culture; by R. B. Handy. 1897. 40 pp.
  61
        No. 62. Marketing farm produce; by George G. Hill. 1897. 28 pp.
  62
        No. 63. Care of milk on farm; by R. A. Pearson. 1897. 40 pp.
  63
        No. 64. Ducks and geese, standard breeds and management; by George E.
  64
               Howard. 1897. 48 pp.
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        No. 65. Experiment station work, 2. 1898. 32 pp.
            See also A10.11:1.
  66 <sup>1</sup>
        No. 66. Meadows and pastures, formation and cultivation in Middle East-
               ern States; by Jared G. Smith. 1897. 24 pp.
  66 <sup>2</sup>
            Same, rev. ed. 1899. 28 pp.
        No. 67. Forestry for farmers; by B. E. Fernow. (Reprinted from Year-
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               books of Department of Agriculture for 1894 and 1895.) 1898. 48 pp.
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Classifica- tion no.	A1. SECRETARY—Continued
A1.9:	Farmers' bulletins—Continued
68	No. 68. Black rot of cabbage; by Erwin F. Smith. 1898. 22 pp.
69	No. 69. Experiment station work, 3. 1898. 32 pp. See also A10.11:1.
70	No. 70. Principal insect enemies of grape; by C. L. Marlatt. 1898. 23 pp.
71	No. 71. Some essentials in beef production; by Charles F. Curtiss. 1898. 24 pp.
72	No. 72. Cattle ranges of the Southwest, history of exhaustion of pasturage and suggestions for its restoration; by H. L. Bentley. 1898. 32 pp.
73	No. 73. Experiment station work, 4. 1898. 32 pp.  See also A10.11:1.
74	No. 74. Milk as food. 1898. 39 pp.
75	No. 75. Grain smuts; how they are caused and how to prevent them; by Walter T. Swingle. 1898. 20 pp.
76	No. 76. Tomato growing; by Edward B. Voorhees. 1898. 30 pp.
77 1	No. 77. Liming of soils; by H. J. Wheeler. 1898. 19 pp.
77 3	Same. rev. 1899. 19 pp.
78	No. 78. Experiment station work, 5. 1898. 32 pp.  See also A10.11:1.
79	No. 79. Experiment station work, 6. 1898. 28 pp.  See also A10.11:1.
80	No. 80. Peach twig-borer, an important enemy of stone fruits; by C. L. Marlatt. 1898. 16 pp.
81	No. 81. Corn culture in South; by S. M. Tracy. 1898. 24 pp.
82	No. 82. Culture of tobacco; by Otto Carl Butterweck. 1898. 24 pp.
83	No. 83. Tobacco soils; by Milton Whitney. 1898. 23 pp.
84	No. 84. Experiment station work, 7. 1898. 32 pp.  See also A10.11:1.
85	No. 85. Fish as food; by C. F. Langworthy. 1898. 30 pp.
86	No. 86. Thirty poisonous plants of U. S.; by V. K. Chesnut. 1898. 32 pp.
87	No. 87. Experiment station work, 8. 1899. 32 pp.  See also A10.11:1.
88	No. 88. Alkali lands; by Milton Whitney and Thomas H. Means. 1899.  23 pp.
89	No. 89. Cowpeas; by Jared G. Smith. 1899. 16 pp.
90 91	No. 90. Manufacture of sorghum sirup; by A. A. Denton. 1899. 32 pp. No. 91. Potato diseases and their treatment; by B. T. Galloway. 1899.
92	12 pp. No. 92. Experiment station work, 9. 1899. 30 pp. See also A10.11:1.
93	No. 93. Sugar as food; by Mary Hinman Abel. 1899. 27 pp.
94	No. 94. Vegetable garden; by Charles H. Greathouse. 1899. 24 pp.
951	No. 95. Good roads for farmers; by Maurice O. Eldridge. 1899. 47 pp.
95 2	Same, [2d ed.] 1900. 47 pp.
96	No. 96. Raising sheep for mutton; by Charles F. Curtiss. 1899. 48 pp.
97	No. 97. Experiment station work, 10. 1899. 32 pp.  See also A10.11:1.
98	No. 98. Suggestions to southern farmers. 1899. 48 pp.
99	No. 99. Three insect enemies of shade trees; by L. O. Howard. (Reprinted with some annotations by the author from Yearbook of Department of Agriculture for 1895.) 1899. 30 pp.

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101

Department of Agriculture for 1895.) 1899. 30 pp.

No. 100. Hog raising in the South; by S. M. Tracy. 1899. 40 pp.

No. 101. Millets; by Thomas A. Williams. 1899. 28 pp.

No. 102. Southern forage plants; compiled from publications of Division of Agrostology, by F. Lamson-Scribner. 1899. 48 pp. 102

103 No. 103. Experiment station work, 11. 1899. 32 pp. See also A10.11:1.

104 No. 104. Notes on frost; by E. B. Garriott. 1899. 24 pp. 105 No. 105. Experiment station work, 12. 1899. 32 pp.

See also A10.11:1.

No. 106. Breeds of dairy cattle; by Henry E. Alvord. (Reprinted from 106 report of Bureau of Animal Industry for 1898.) 1899. 48 pp.

Classifica- tion no.	A1. SECRETARY—Continued
A1.9:	Farmers' bulletins—Continued
107	No. 107. Experiment station work, 13. 1899. 32 pp. See also A10.11:1.
108	No. 108. Saltbushes; by P. Beveridge Kennedy. 1900. 20 pp.
109	No. 109. Farmers' reading courses; by L. H. Bailey. (Abridgment of bull. 72, exp. stations). 1900. 20 pp.
110	No. 110. Rice culture in U.S.; by S. A. Knapp. 1900. 28 pp.
111	No. 111. Farmer's interest in good seed; by A. J. Pieters. 1900. 24 pp.
112	No. 112. Bread and principles of bread making; by Helen W. Atwater. 1900. 39 pp.
113 114	No. 113. Apple and how to grow it; by G. B. Brackett. 1900. 32 pp. No. 114. Experiment station work, 14. 1900. 28 pp.
715	See also A10.11:1. No. 115 Hon culture in California, by Daniel Flint. 1000. 98 nn.
115	No. 115. Hop culture in California; by Daniel Flint. 1900. 28 pp.
116 117	No. 116. Irrigation in fruit growing; by E. J. Wickson. 1900. 48 pp. No. 117. Sheep, hogs, and horses in Pacific Northwest; 1. Sheep hus-
111	bandry, by James Withcombe; 2. Hog raising, by Hiram T. French; 3. Horse industry, by S. B. Nelson. 1900. 28 pp.
118	No. 118. Grape growing in South [by] S. M. Tracy. 1900. 32 pp.
119	No. 119. Experiment station work, 15. 1900. 31 pp.  See also A10.11:1.
120	No. 120. Principal insects affecting tobacco plant; by L. O. Howard. (Reprinted, with slight revision by the author, from Yearbook of Department of Agriculture for 1898.) 1900. 32 pp.
<b>12</b> 1	No. 121. Beans, peas, and other legumes as food; by Mary Hinman Abel. 1900. 32 pp.
122	No. 122. Experiment station work, 16. 1900. 32 pp. See also A10.11:1.
123	No. 123. Red clover seed: information for purchasers; by A. J. Pieters. 1901. 11 pp.
124	No. 124. Experiment station work, 17. 1901. 32 pp. See also A10.11:1.
125	No. 125. Protection of food products from injurious temperatures; by H. E. Williams. 1901. 26 pp.
126	No. 126. Practical suggestions for farm buildings; by George G. Hill. 1901. 48 pp.
127	No. 127. Important insecticides: directions for their preparation and use; revision of Farmers' Bulletin no. 19; by C. L. Marlatt. 1901. 42 pp.
128 ¹	No. 128. Eggs and their uses as food; by C. F. Langworthy. 1901. 32 pp.
128 °	Same, revised edition. 1901. 32 pp.
129 1	No. 129. Sweet potatoes; by D. M. Nesbit. 1901. 40 pp.
129 2	Same [revised]. 1902. 40 pp.
130	No. 130. Mexican cotton-boll weevil; by Frederick W. Mally. 1901.  30 pp.
131	No. 131. Household tests for detection of oleomargarine and renovated butter; by G. E. Patrick. 1901. 11 pp.
132	No. 132. Principal insect enemies of growing wheat; by C. L. Marlatt. 1901. 40 pp.
133	No. 133. Experiment station work, 18. 1901. 32 pp.  See also A10.11:1.
134	No. 134. Tree planting on rural school grounds; by Wm. L. Hall. 1901.  38 pp.
135	No. 135. Sorghum sirup manufacture; by A. A. Denton. 1901. 40 pp.
136	No. 136. Earth roads; by Maurice O. Eldridge. 1902. 24 pp.
137	No. 137. Angora goat; by George Fayette Thompson. 1901. 48 pp.
138 139	No. 138. Irrigation in field and garden; by E. J. Wickson. 1901. 40 pp. No. 139. Emmer; a grain for semiarid regions; by Mark Alfred Carleton. 1901. 16 pp.
140	No. 140. Pineapple growing; by Peter H. Rolfs. 1901. 48 pp.
141	No. 141. Poultry raising on farm; by D. E. Salmon. 1901. 16 pp.
142	No. 142. Principles of nutrition and nutritive value of food; by W. O. Atwater. 1902. 48 pp.

Tables	
Classifica- tion no.	A1. SECRETARY— ontinued
A1.9:	Farmers' bulletins—Continued
143	No. 143. Conformation of beef and dairy cattle; by Andrew M. Soule. 1902. 44 pp.
144	No. 144. Experiment station work, 19. 1901. 32 pp.  See also A10.11:1.
145	No. 145. Carbon bisulphid as an insecticide; by W. E. Hinds. 1902. 28 pp.
146	No. 146. Insecticides and fungicides: chemical composition and effectiveness of certain preparations; by J. K. Haywood. 1902. 16 pp.
147	No. 147. Winter forage crops for the South; by Carleton R. Ball. 1902.  36 pp.
148	No. 148. Celery culture; by W. R. Beattie. 1902. 32 pp.
149	No. 149. Experiment station work, 20. 1902. 32 pp. See also A10.11:1.
150	No. 150. Clearing new land; by Franklin Williams, jr. 1902. 24 pp.
151	No. 151. Dairying in the South; by S. M. Tracy. 1902. 48 pp.
152	No. 152. Scables in cattle; by Richard W. Hickman. 1902. 24 pp.
153	No. 153. Orchard enemies in Pacific Northwest; by C. V. Piper. 1902. 39 pp.
154	No. 154. Home fruit garden, preparation and care; by L. C. Corbett. 1902. 20 pp.
155	No. 155. How insects affect health in rural districts; by L. O. Howard. 1902. 20 pp.
156	No. 156. Home vineyard, with special reference to northern conditions; by W. H. Ragan. 1902. 24 pp.
157	No. 157. Propagation of plants; by L. C. Corbett. 1902. 24 pp.
158	No. 158. How to build small irrigation ditches; by C. T. Johnston and J. D. Stannard. 1902. 28 pp.
7.00	No. 159. Not yet issued.
160	No. 160. Game laws for 1902; summary of provisions relating to seasons, shipment, sale, and licenses; by T. S. Palmer and H. W. Olds. 1902. 56 pp.
161	No. 161. Practical suggestions for fruit growers; by H. P. Gould. 1902. 28 pp.
A1.10:	Yearbook
\	[Since 1894 the Yearbook has been issued as second part of the report of the Secretary of Agriculture, including, besides the report of the Secretary, scientific reports of division chiefs and miscellaneous papers on agricultural science.]
<b>894</b>	1894, 608 pp., 7 pl. Same, 53d Cong., 3d sess., H. ex. doc. 355; serial no. 3326.
895	1895, 656 pp., 10 pl. Same, 54th Cong., 1st sess., H. doc. 380; serial no. 3441.
896	1896, 686 pp., 6 pl. Same, 54th Cong., 2d sess., H. doc. 6, pt. 2; serial no. 3496.
897	1897, 792 pp., 41 pl. Same, 55th Cong., 2d sess., H. doc. 454; serial no. 3893.
898	1898, 768 pp., 42 pl. Same, 55th Cong., 3d sess., H. doc. 293; serial no. 3824.
899 ¹ 899 ²	1899, 880 pp., 64 pl. Same, printed on heavier paper and lettered on back "Special edition Paris Exposition, 1900." Same, 56th Cong., 1st sess., H. doc. 588; serial no. 3996.
900	1900, 888 pp., 87 pl., 1 por. Same, 56th Cong., 2d sess., H. doc. 519; serial no. 4179.
901	1901, 846 pp., 90 pl., 1 por. Same, 57th Cong., 1st sess., H. doc. 661; serial no. 4385.
A1.10a:	Yearbook (separates)

[The Secretary's report and most of the articles on scientific subjects contained in the Yearbook are printed separately.]

#### A2. ACCOUNTS AND DISBURSEMENTS DIVISION Classification no. A2.1: Annual reports 1892 (Fuller). (In A1.1:892, p. 513). (Also in A1.1:893, p. 411.) 1893 (Evans), pp. iii+411-416. 893 894 1894 (Evans), pp. iii+189-194. (Also in A1.1:894, p. 189.) 'Also in A1.1:895, p. 245.) 1895 (Evans), pp. iii+245-264. 895 1896 (Evans), pp. iii+71-82. (Also in A1.1:896, p. 71.) 896 1897 (Evans), pp. iii+93-110. (Also in A1.1:897, p. 93.) 897 1898 (Evans), pp. iii+87-102. 898 (Also in A1.1:898, p. 87.) 1899 (Evans), pp. iii+215-233. (Also in A1.1:899, p. 215.) 899 1900 (Evans), pp. iii+233-263. 900 (Also in A1.1:900, p. 233.) 901 1901 (Evans), pp. iii+253-269. (Also in A1.1:901, p. 253.) 902 1902 (Evans), pp. iii + 219 - 233. (Also in A1.1:902, p. 219.) **A2.2**: General publications [Publications which originated in this Division, but which were published in a numbered series of the Secretary's office, or some other division of the Department, are entered only where such numbering places them, with references under the proper headings in the index to this work. Publications of the Division issued only as Congressional documents are noted in chronological order in the Appendix to this work.] Appropriations. Use of annual appropriations. [Decision of Comptroller Ap6 of Treasury, Apr. 18, 1900] reprinted for use of disbursing officer, Agriculture Department. n. t. p. 4 pp. Financial transactions. Regulations governing financial transactions with F49 U.S. Department of Agriculture, with extracts from Revised Statutes, decisions of the Comptrollers, etc. 1894. 42 pp. 1 folded table. Fiscal regulations of U. S. Department of Agriculture, with extracts from F52 <sup>1</sup> Revised Statutes, decisions of courts, rulings of the Comptrollers, opinions of Attorneys-General, etc. 1898. 45 pp. 1 folded table. F52 3 Same. Revised edition, 1901. 49 pp. 1 folded table. A2.3: Bulletins None issued. A2.4: Circulars None issued.

#### A3. AGROSTOLOGY DIVISION

[For historical sketch of Division, see Yearbook, 1897, p. 180 (A1.10:897). The Division was merged into Bureau of Plant Industry July 1, 1901. See A19.]

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A3.1:
            Annual reports
            1895 (Scribner).
                                     (In A1.1:895, p. 165).
                                                             (Also in A1.1:896, p. 103.)
            1896 (Scribner), pp. iii+103-108.
   896
            1897 (Scribner), pp. [i]+161-166.
   897
                                                             (Also in A1.1:897, p. 161.)
            1898 (Scribner), pp. iii+145-152.
   898
                                                            (Also in A1.1:898, p. 145.)
            1899 (Scribner), pp. iii+113-117.
  899
                                                             (Also in A1.1:899, p. 113.)
            1900 (Scribner), pp. iii+83-90. (Also in A1.1:900, p. 83.)
1901 (Scribner). This final report of the Division was made through the
  900
                     chief of the Bureau of Plant Industry, forming part of his annual
                     report for 1901. See A1.1:901, p. 67; also A19.1:901, p. 67.]
A3.2:
            General publications
               [Publications which originated in this Division, but which were published in a numbered series of Secretary's office, or some other division of the Department, are
                   entered only where such numbering places them, with references under the proper headings in the index to this work. Publications of the Division issued only as Congressional documents are noted in chronological order in the Appen-
                    dix to this work.
            Bulletins
A2.3:
     1
            No. 1. Grasses and forage plants of the Southeastern States; by Thomas
                   H. Kearney, jr. 1895. 28 pp.
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#### Classification no.

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25

# A3. AGROSTOLOGY DIVISION—Continued

# A3.3: | Bulletins—Continued

No. 2. Fodder and forage plants exclusive of grasses; by Jared G. Smith. 1896. 58 pp.

2<sup>2</sup> Same. Revised ed. 1900. 86 pp. 2 pl.

No. 3. Useful and ornamental grasses; by F. Lamson-Scribner. 1896.

119 pp.

No. 4. Studies on American grasses; by F. Lamson-Scribner. Land C.

No. 4. Studies on American grasses; by F. Lamson-Scribner, Jared G. Smith, and Theo. Holm. 1897. 43 pp. 5 pl.

No. 5. Grasses and forage plants of Rocky Mountain region; by P. A. Rydberg and C. L. Shear. 1897. 48 pp.

No. 6. Grasses and forage plants of the Dakotas; by Thomas A. Williams. 1897. 47 pp.

71 No. 7. American grasses; by F. Lamson-Scribner. 1897. 331 pp.

7<sup>2</sup> No. 7. American grasses, 1. Rev. ed. 1898. 331 pp.

7<sup>3</sup> Same, 3d ed. 1900. 319 pp.

No. 8. Studies on American grasses; by F. Lamson-Scribner and Miss E. L. Ogden. 1897. 23 pp. 9 pl.

No. 9. Grasses and forage plants of Iowa. Nebraska, and Colorado: by L.

No. 9. Grasses and forage plants of Iowa, Nebraska, and Colorado; by L. H. Pammel. 1897. 47 pp.

No. 10. Grasses and forage plants of central Texas; by H. L. Bentley. 1898. 38 pp.

No. 11. Studies on American grasses; by Thomas H. Kearney, ir., and F.

No. 11. Studies on American grasses; by Thomas H. Kearney, jr., and F. Lamson-Scribner. 1898. 62 pp. 17 pl.

No. 12. Grasses and forage plants and forage conditions of eastern Rocky Mountain region; by Thomas A. Williams. 1898. 78 pp.

No. 13. Red Desert of Wyoming and its forage resources; by Aven Nelson. 1898. 72 pp. 5 pl.

14<sup>1</sup> No. 14. Economic grasses; by F. Lamson-Scribner. 1898. 85 pp. 3 pl. 14<sup>2</sup> Same, rev. 1900. 85 pp. 3 pl.

No. 15. Forage plants and forage resources of Gulf States; by S. M. Tracy.
1898. 55 pp.
No. 16. Grazing problems in Southwest and how to meet them; by Jared

No. 16. Grazing problems in Southwest and how to meet them; by Jared G. Smith. 1899. 47 pp.

17<sup>1</sup> No. 17. American grasses, 2; by F. Lamson-Scribner. 1899. 349 pp. 17<sup>2</sup> Same, rev. ed. 1901. 349 pp.

No. 18. Studies on American grasses; synopsis of genus sitanion; by J. G. Smith. 1899. 21 pp. 4 pl.

No. 19. Structure of caryopsis of grasses, with reference to morphology and classification; by P. Beveridge Kennedy. 1899. 44 pp. 8 pl. Same, revised. 1900. 44 pp. 8 pl.

20<sup>1</sup> No. 20. American grasses, 3; by F. Lamson-Scribner. 1900. 197 pp. 20<sup>2</sup> Same, rev. ed. 1900. 197 pp.

No. 21. Studies on American grasses; North American species of chætochloa; by F. Lamson-Scribner and Elmer D. Merrill. 1900. 44 pp.

No. 22. Cooperative experiments with grasses and forage plants; by P. Beveridge Kennedy. 1900. 86 pp. 13 pl.

No. 23. Studies on American grasses: a revision of North American species of bromus occurring north of Mexico; by Cornelius L. Shear. 1900. 66 pp.

No. 24. Studies on American grasses; by F. Lamson-Scribner, Elmer D. Merrill, and Carleton R. Ball. 1900. 55 pp.

No. 25. Field work of Division of Agrostology; review and summary of work done since organization of division, July 1, 1895; by Cornelius L. Shear. 1901. 67 pp. 28 pls. 8 maps.

## A3.4: Circulars

No. 1. Note on experimental grass gardens; by Jared G. Smith. Aug. 6, 1895. n. t. p. 4 pp.

No. 2. Hairy vetch, sand vetch, or Russian vetch; by F. Lamson-Scribner. Oct. 1, 1895. n. t. p. 4 pp.

No. 3. Saltbushes; by Jared G. Smith. Mar. 13, 1896. n. t. p. 4 pp. No. 4. Renewing of worn-out native prairie pastures; by Thomas A. Williams. Nov. 2, 1896. n. t. p. 4 pp.

# A3. AGROSTOLOGY DIVISION—Continued

AS	B.4:	Circulars—Continued
	42	Same, revised. Nov. 15, 1897. n. t. p. 4 pp.
	5 <sup>1</sup>	No. 5. Cowpeas; by Jared G. Smith. Nov. 26, 1897. n. t. p. 10 pp.
	Š 2	Same, rev. ed. Mar. 25, 1898. n. t. p. 11 pp.
	61	No. 6. Cultivated vetches; by Jared G. Smith. Feb. 25, 1898. n. t. p.
	62	7 pp. Same, rev. ed. Apr. 15, 1898. n. t. p. 8 pp.
4		No. 7. Gram, chick-pea, or Idaho pea; by Jared G. Smith. Nov. 18, 1898. n. t. p. 4 pp.
	8	No. 8. Experiments in range improvements; by Jared G. Smith. Dec. 27, 1898. n. t. p. 5 pp.
	9	No. 9. New species of North American grasses; by F. Lamson-Scribner. Feb. 15, 1899. n. t. p. 7 pp.
<b>v</b>	10	No. 10. Poa fendleriana and its allies; by Thomas A. Williams. Apr. 15, 1899. n. t. p. 6 pp.
	11	No. 11. Flat pea; by F. Lamson-Scribner. Apr. 28, 1899. n. t. p. 6 pp.
	12	No. 12. Rape as a forage plant; by Thomas A. Williams. May 5, 1899.
	13	n. t. p. 6 pp. No. 13. Florida beggar weed, also known as Beggar weed, Florida clover, Giant Beggar weed; by Jared G. Smith. May 6, 1899. n. t. p.
	14	No. 14. Velvet bean; by Jared G. Smith. May 13, 1899. n. t. p.
4	15	5 pp. No. 15. Recent additions to systematic agrostology. July 14, 1899. n. t. p.
/	16	No. 16. New species of North American grasses; by F. Lamson-Scribner.
	17	July 1, 1899. n. t. p. 6 pp. No. 17. Crimson clover; by Thomas A. Williams. Aug. 19, 1899. n. t. p.
	18	No. 18. Smooth brome-grass; by P. Beveridge Kennedy. Dec. 1, 1899.
✓	19	n. t. p. 9 pp.  No. 19. New or little known Mexican grasses; by F. Lamson-Scribner.
	20	Dec. 19, 1899. n. t. p. 4 pp.  No. 20. Experiments with forage plants in Ontario; by P. Beveridge Kennedy. Dec. 15, 1899. n. t. p. 3 pp.
	21	No. 21. Cooperative range grass and forage plant experiments at High- more, South Dakota; by F. Lamson-Scribner. Dec. 20, 1899. n. t. p.
	22	10 pp.  No. 22. Grass and forage plant investigations on the Pacific Coast; by F.
	23	Lamson-Scribner. Dec. 22, 1899. n. t. p. 7 pp.  No. 23. Progress of experiments in forage crops and range improvement
	24	at Abilene, Texas; by H. L. Bentley. Dec. 30, 1899. n. t. p. 20 pp. No. 24. Cowpeas and corn for silage and fodder; by W. Gettys. Feb. 26,
	25 1	1900. n. t. p. 10 pp. No. 25. Turkestan alfalfa; by P. Beveridge Kennedy. Apr. 9, 1900.
	25 2	n. t. p. 20 pp. Same, rev. [Aug. 1900.] n. t. p. 20 pp.
	26	No. 26. Rescue grass; by Cornelius L. Shear. May 21, 1900. n. t. p. 4 pp.
	27	No. 27. Agrostological notes: Grasses of herbarium of Dr. H. Muhlenberg, by F. Lamson-Scribner and Elmer D. Merrill; Two new spe-
	<b>28</b>	cies of Eatonia, etc. Dec. 4, 1900. n. t. p. 10 pp. No. 28. Grasses and fodder plants on Potomac flats; by C. R. Ball. Dec.
	29	13, 1900. n. t. p. 18 pp. No. 29. Grasses in Elliott's "Sketch of Botany of South Carolina and
	30	Georgia'; by F. Lamson-Scribner. [1901.] n. t. p. 12 pp. No. 30. New or little known grasses; by F. Lamson-Scribner. Mar. 8,
	Ì	1901. n. t. p. 8 pp.
	31	No. 31. Bermuda grass; by A. S. Hitchcock. Mar. 21, 1901. n. t. p. 6 pp.
	32	No. 32. Some Arizona grasses; by Elmer D. Merrill. Apr. 22, 1901. n. t. p. 10 pp.
	33	No. 33. Range grass and forage plant experiments at Highmore, S. Dak.,
		report of progress; by F. Lamson-Scribner. April 2, 1901. n. t. p. 5 pp.

#### Classification no.

#### AGROSTOLOGY DIVISION—Continued A3.

#### A3.4: Circulars—Continued

34 No. 34. Aristida purpurea Nutt., and its allies; by Elmer D. Merrill. May 24, 1901. n. t. p. 8 pp.

No. 35. Agrostological notes; by F. Lamson-Scribner and Elmer D. Mer-35 rill. June 18, 1901. n. t. p. 6 pp.

36 No. 36. List of publications of Division of Agrostology; by F. Lamson-Scribner. June 12, 1901. n. t. p. 8 pp.

#### ANIMAL INDUSTRY BUREAU

[For historical sketch of Bureau, see Yearbook, 1897 (A1.10:897), p. 236.]

# A4.1: | Annual reports

[The "also" references are to an abbreviated report of the chief without accompanying documents. From 1877 to 1883 reports on contagious diseases of domestic animals accompanied the annual reports of the Secretary. The report for 1881 and 1882 is designated in the running heading as a report of the Veterinary division, though that division was not formally organized until 1883. References to these reports will be found under "Domestic animals" and "Veterinary division" in the index to this work.]

884 1884, 1st (Salmon), 512 pp., 19 pl. (Also in A1.1:884, p. 181.) Same, 48th Cong., 2d sess., H. mis. doc. 25; serial no. 2311.

885 1885, 2d (Salmon), 662 pp., 11 pl. (Also in A1.1:885, p. 431.) Same, 48th Cong., 2d sess., H. mis. doc. 36; serial no. 2311.

1886, 3d (Salmon), 456 pp., 17 pl. (Also in A1.1:886, p. 593.) 886 Same, 49th Cong., 2d sess., H. mis. doc. 156; serial no. 2493.

1887 and 1888, 4th and 5th (Salmon), 510 pp., 25 pl. (1887, also in A1.1: 887-8 887, p. 457; 1888, also in A1.1:888, p. 145.) Same, 50th Cong., 2d sess., H. mis. doc. 139; serial no. 2665.

1889 and 1890, 6th and 7th (Salmon), 503 pp., 1 pl. (1889, also in A1.1: 889-90 889, p. 49; 1890, also in A1.1:890, p. 75.)

Same, 51st Cong., 1st sess., H. mis. doc. 270; serial no. 2801.

1890 and 1892, 8th and 9th (Salmon), 428 pp., 19 pl. (1891, also in A1.1: 891-2 891, p. 83; 1892, also in A1.1:892, p. 85.)

Same, 52d Cong., 2d sess., H. mis. doc. 120; serial no. 3138.

1893 and 1894, 10th and 11th (Salmon), 127 pp. (1893, also in A1.1:893, **893-4** p. 123; 1894, also in A1.1:894, p. 103.) Same, 54th Cong., 1st sess., H. doc. 205; serial no. 3420.

895-6

1895 and 1896, 12th and 13th (Salmon), 362 pp., 38 pl. (1895, also in A1.1: 895, p. 97; 1896, also in A1.1:896, p. 1.) Same, 54th Cong., 2d sess., H. doc. 291; serial no. 3537.

1897, 14th (Salmon), 727 pp., 6 pl. (Also in A1.1:897, p. 185.) 897 Same, 55th Cong., 2d sess., H. doc. 578; serial no 3680.

1898, 15th (Salmon), 647 pp., 25 pl., 1 map. (Also in A1.1:898, p. 179.) 898 Same, 55th Cong., 3d sess., H. doc. 307; serial no. 3831.

1899, 16th (Salmon), 790 pp. 41 pl. (Also in A1.1:899, p. 243.) 899 Same, 56th Cong., 1st sess., H. doc. 745; s rial no. 4019.

1900, 17th (Salmon), 642 pp., 98 pl. (Also in A1.1:900, p. 211.) **900** Same, 56th Cong., 2d sess., H. doc. 549; serial no. 4201.

1901, 18th (Salmon), 706 pp., 117 pl. (Also in A1.1:901, p. 15.) 901 Same, 57th Cong., 1st sess., H. doc. 682; serial no. 4387.

> [The Bureau also made an annual report to Congress of its employees, expenditures, and work, etc., no Bureau edition of which was issued. Following are the references to these reports as they appear in the Congressional set.]

1887, 50th Cong., 1st sess., S. ex. doc. 69; serial no. 2510.

1888, 50th Cong., 2d sess., H. mis. doc. 62; serial no. 2654.

1889, 51st Cong., 1st sess., S. ex. doc. 24; serial no. 2682.

1890, 51st Cong., 2d sess., S. ex. doc. 8; serial no. 2818.

1891, 52d Cong., 1st sess., S. ex. doc. 11; serial no. 2892.

1892, 52d Cong., 2d sess., S. ex. doc. 20; serial no. 3056.

1894, 53d Cong., 3d sess., S. ex. Joc. 27; serial no. 3275.

1895, 54th Cong., 1st sess., H. doc. 96; serial no. 3414.

1896, 54th Cong., 2d sess., S. doc. 45; serial no. 3469. 1897, 55th Cong., 2d sess., H. doc. 227; serial no. 3680.

1899, 56th Cong., 1st sess., S. doc. 100; serial no. 3850.

1900, 56th Cong., 2d sess., S. doc. 96; serial no. 4033.

	Tables
Classifica- tion no.	A4. ANIMAL INDUSTRY BUREAU—Continued
A4.1a:	Annual reports (separates, reports of chief)
	[The personal report of the chief is issued separately in pamphlet form.]
A4.1a:	Annual reports (miscellaneous separates)
	[The more important of the scientific papers accompanying the reports of the chief are issued separately in pamphlet form. References to all the scientific papers will be found under their proper headings in the index to this work.]
A4.2:	General publications
	[Publications which originated in this Bureau, but which were published in a numbered series of the Secretary's office, or some other division of the Department, are entered only where such numbering places them, with references under the proper headings in the Index to this work. Publications of the Bureau issued only as Congressional documents are noted in chronological order in the Appendix to this work.]
An5	Animals. Contagious diseases of domesticated animals; investigations by Department of Agriculture, 1883–1884. 1884. 368 pp., 17 pl.
B39	Beef supply of U. S., and export trade in animals and meat products; by D. E. Salmon. Advance sheets from annual report [of Secretary] 1889. 1890. 15 pp. (Special bulletin.)
C29 <sup>1</sup>	Cattlemen. Proceedings of interstate convention of cattlemen, held at Fort Worth, Texas, March 11-13, 1890. 1890. 102 pp. (Special bulletin.)
C29 2	Cattle. Special report on diseases of cattle and cattle feeding; by Drs.  Murray, Atkinson, Harbaugh, Lowe, Law, Dickson, Trumbower,  Smith, and Professor Henry. 1892. 496 pp. 44 pl.
C29 <sup>3</sup>	Same, 52d Cong., 2d sess., H. mis. doc. 106; serial no. 3125. Same, reprint, 1896. 496 pp. 44 pl.
D14	Dairy. Fifty dairy rules; reprinted from Farmers' bulletin 63. (Placard.)
F48	Filled cheese. [Notice of passage of filled-cheese bill.] June 10, 1896. (Circ.)  [To accompany Circular 11 (A4.4:11.)]
<b>F7</b> 3	Foot-and-mouth disease. Instructions concerning inspection for foot-and-mouth disease. Dec. 3, 1902. n. t. p. 3 pp.
F82	Fowl cholera. Report on prevention of fowl cholera; by D. E. Salmon.; Feb. 23, 1881. n. t. p. 2 pp. 4°.
H781	Horse. Special report on diseases of the horse; by Drs. Michener, Law, Harbaugh, Trumbower, Liautard, Holcombe, Huidekoper, and Dickson. 1890. 560 pp. 44 pl.
H782	Same, reprint, 1896. 576 pp. 44 pl.
P42	Pork. Instructions for microscopists in examination of pork for trichina.  June 26, 1896. n. t. p. 2 l.
8h41	Sheep. Animal parasites of sheep; by Cooper Curtice. 1890. 222 pp. 36 pl.
8h4²	Sheep. Special report on history and present condition of sheep industry of U.S.; by Ezra A. Carman, H. A. Heath, and John Minto. 1892. 1,000 pp. 96 pl. Same, 52d Cong., 2d sess., H. mis. doc. 105, serial no. 3124.
Sw5	Swine plague. Special report on cause and prevention of swine plague, results of experiments conducted by Theobald Smith. 1891. 166 pp. 12 pl.
A4.3:	Bulletins
1	No. 1. Investigations into nature, causation, and prevention of Texas or southern cattle fever; by Theobald Smith and F. L. Kilborne. 1893. 301 pp. 10 pl.
2	No. 2. Investigations relating to treatment of lumpy jaw or actinomycosis in cattle; by D. E. Salmon. 1893. 90 pp. 8 pl.
3	No. 3. Miscellaneous investigations concerning infectious and parasitic diseases of domesticated animals; conducted by F. L. Kilborne, Veranus A. Moore, E. C. Schroeder, Theobald Smith, and C. W. Stiles. 1893. 86 pp. 3 pl.
4	No. 4. Revision of the adult cestodes of cattle, sheep, and allied animals; by C. W. Stiles and Albert Hassall. 1893. 134 pp. 16 pl.
5	No. 5. Dairy industry of Denmark; by C. C. Georgeson. 1893. 133 pp.

32

#### Classifica-A4. ANIMAL INDUSTRY BUREAU—Continued tion no. **Bulletins—Continued** A4.3: в No. 6. Additional investigations concerning infectious swine diseases; [articles] by Theobald Smith and Veranus A. Moore. 1894. 117 pp. 7 No. 7. Investigations concerning bovine tuberculosis, with special reference to diagnosis and prevention. 1894. 178 pp. 6 pl. No. 8. Investigations concerning infectious diseases among poultry; 8 [articles] by Theobald Smith and Veranus A. Moore. 1895. 90 pp. 6 pl. 9 No. 9. Rules and regulations governing operations of Bureau of Animal Industry; also acts of Congress under which they are made. 1895. 10 No. 10. Cornstalk disease and rabies in cattle; [articles] by Veranus A. Moore and E. A. de Schweinitz. 1896. 92 pp. 2 pl. No. 11. Statistics of the dairy; compiled from U. S. Census, 1890, and 11 other reliable sources by Henry E. Alvord. 1896. 53 pp. 12 No. 12. Tapeworms of poultry; report [by] Ch. Wardell Stiles [and] Bibliography, [by] Albert Hassall. 1896. 88 pp. 22 pl. 13 No. 13. Tuberculosis investigations; [articles] by E. A. de Schweinitz, Marion Dorset, and E. C. Schroeder. 1896. 27 pp. 2 pl. No. 14. Dairying in California; by E. J. Wickson. 1896. 31 pp. 14 15 No. 15. Cheese industry of State of New York; by B. D. Gilbert. 54 pp. 16 No. 16. Dairy industry in Nebraska, South Dakota, and North Dakota; by John H. Monrad. 1896. 21 pp. 17 No. 17. Dairy schools; by R. A. Pearson. 1896. 38 pp. 4 pl. No. 18. Dairy industry in Missouri and Kansas; by Levi Chubbuck. 18 1897. 23 pp. 19 No. 19. Inspection of meats for animal parasites; [articles by] Ch. Wardell Stiles and Albert Hassall. 1898. 161 pp. Same, 55th Cong., 2d sess., H. doc. 338; serial no. 3680. No. 20. Milk supply of Boston and other New England cities; by George M. 20 Whittaker. 1898. 37 pp. 3 pl. 21<sup>1</sup> No. 21. Sheep scab: its nature and treatment; by D. E. Salmon and Ch. Wardell Stiles. 1898. 64 pp. 6 pl. 21 <sup>2</sup> Same, revised. 1900. 64 pp. 6 pl. No. 22. Proceedings of second annual meeting of association of experi-**22** ment station veterinarians, held at Omaha, Nebr., Sept. 8, 1898. 1898. 29 pp. **23**<sup>1</sup> No. 23. Serum treatment of swine plague and hog cholera; by E. A. de Schweinitz, with collaboration of Marion Dorset and E. C. Schroeder. 1899. 18 pp. **23** \* Same, by E. A. de Schweinitz, with collaboration of Marion Dorset. 1899. 18 pp. No. 24. Notes upon dairying in California and export of California butter 24 to Orient; by R. A. Pearson. 1900. 29 pp. 4 pl. No. 25. Rabies. Report of committee on Public Health of Medical Society 25 of District of Columbia. 1900. 29 pp. 26 No. 26. National and State dairy laws; compiled and abstracted by R. A. Pearson. 1900. 100 pp. No. 27. Information concerning Angora goat; by George Fayette Thomp-27 son. 1901. 94 pp. 17 pls. 28 No. 28. Legislation with reference to bovine tuberculosis, being digest of laws now in force, and transcript of laws, rules and regulations, and proclamations for the several States and Territories; [compiled] by D. E. Salmon. 1901. 173 pp. No. 29. American breeds of fowls; 1. Plymouth Rock; by T. F. McGrew. **29** 1901. 32 pp. 6 pl. No. 30. Trichinosis in Germany, Parts 1-3, [articles] by Ch. Wardell 30 Stiles; pt. 4, Bibliography, by Albert Hassall, 1901. 211 pp. No. 31. American breeds of fowls; 2. Wyandotte; by T. F. McGrew. 31 1901. 30 pp. 10 pl.

No. 32. Tuberculin test of imported cattle; by D. E. Salmon. 1901. 22 pp.

Classifica-	A4. ANIMAL INDUSTRY BUREAU—Continued
A4.3:	Bulletins—Continued
33	No. 33. Relation of bovine tuberculous to public health; by D. E. Salmon. 1901. 36 pp.
34	No. 34. American breeds of beef cattle, with remarks on pedigrees; by George M. Rommel. 1902. 34 pp. 23 pl.
35	No. 35. Eleven miscellaneous papers on animal parasites. 1902. 61 pp. 5 pls.
36	No. 36. Apoplectiform septicemia in chickens. Preliminary report on a highly fatal disease caused by nonpyogenic strepococcus; by Victor A. Nörgaard and John R. Mohler. 1902. 24 pp. 4 pl.
37	No. 37. Market classes of horses; by George M. Rommel. 1902. 32 pp. 12 pl.
39	No. 38. Not issued 1902.  No. 39. Index catalogue of medical and veterinary zoology, pt. 1.  Authors: A to Azevedo; by Ch. Wardell Stiles and Albert Hassall.
40	No. 40. Description and treatment of scabies in cattle; by Richard W. Hickman. 1902. 23 pp. 1 pl.
41	[Identical with A1.9:152.]
41	No. 41. Mexico as a market for pure-bred beef cattle from U. S.; by D. E. Salmon. 1902. 28 pp. 1 map.
42	No. 42. Emergency report on surra, by D. E. Salmon and Ch. Wardell Stiles; with bibliography of surra and allied trypanosomatic diseases, by Albert Hassall. 1902. 152 pp. 16 pl.
43	No. 43. State and Territorial laws relating to contagious and infectious diseases of animals, 1901. 1902. 72 pp.
A4.4:	Circulars
1 <sup>1</sup> 1 <sup>2</sup>	[No. 1. Directions for sterilization of milk.] Dec. 19, 1893. (Circ.) Same, 2d ed. July 24, 1894. (Circ.)
13	No. 1. Same. [3d ed.] Dec. 19, 1893 [1896]. (Circ.)
14	No. 1. Directions for pasteurization of milk; revised Nov. 15, 1897. (Circ.)
2	No. 2. Wheat as a food for growing and fattening animals; by D. E. Salmon. n. d. n. t. p. 4 pp.
3	No. 3. Nodular tæniasis in fowls; by Veranus A. Moore. Aug. 28, 1895. n. t. p. 4 pp.
4	No. 4. Crossing improved breeds of swine with the common hogs of Florida; by Robt. W. Furnas. Dec. 28, 1895. n. t. p. 3 pp.
5	No. 5. Direct transmission of infectious entero-hepatitis in turkeys; by Veranus A. Moore. Mar. 11, 1896. n. t. p. 8 pp.
6 7	No. 6. Black quarter; by D. E. Salmon. n. d. n. t. p. 4 pp. No. 7. Actinomycosis, or lumpy jaw; by D. E. Salmon. n. d. n. t. p. 4 pp.
8	No. 8. Injuries to cattle from swallowing pointed objects, by Theobald Smith and Charles F. Dawson. n. d. n. t. p. 4 pp.
<b>9</b>	No. 9. Checklist of animal parasites of chickens; by Albert Hassall.  Mar. 25, 1896, with addendum, Apr. 10, 1896. n. t. p. 7 pp.
<b>10</b>	No. 10. List of State dairy commissioners and associations of dairymen in the U.S. and Canada, 1896; by Henry E. Alvord. Mar. 30, 1896. n. t. p. 6 pp.
<b>v</b> 11	No. 11. How to select good cheese; by Henry E. Alvord. Apr. 20, 1896. n. t. p. 11 pp.  [For notice to accompany, see A4.2:F48.]
<b>√</b> 12	No. 12. Checklist of animal parasites of turkeys; by Albert Hassall. Apr.
١ 13	29, 1896. n. t. p. 3 pp. No. 13. Checklist of animal parasites of ducks; by Albert Hassall. May
v 14	14, 1896. n. t. p. 7 pp.  No. 14. Checklist of animal parasites of geese; by Albert Hassall. June 15, 1896. n. t. p. 5 pp.
15	No. 15. Checklist of animal parasites of pigeons; by Albert Hassall. July 21, 1896. n. t. p. 4 pp.
16	No. 16. Correspondence defining "filled cheese." Sept. 1, 1896. n. t. p. 2 pp.

Classifica- tion no.	A4. ANIMAL INDUSTRY BUREAU—Continued
<b>A4.4</b> :	Circulars—Continued
17	No. 17. Exports of animals and their products; by D. E. Salmon. Jan. 21, 1897. n. t. p. 3 pp.
18	No. 18. List of officials and associations connected with dairy interests in U. S. and Canada for 1897; by Henry E. Alvord. Apr. 10, 1897.
19	n. t. p. 8 pp. No. 19. Factory cheese and how it is made; by G. Merry. n. d. n. t. p.
√ <b>20</b>	8 pp. No. 20. Preventive vaccination against blackleg; by D. E. Salmon. n. t. p.
<b>21</b>	2 pp. No. 21. Directions for use of blackleg vaccine; by [Victor E. Nörgaard]. Aug. 3, 1897. n. t. p. 8 pp.
	[No. 23, 2d revision, is issued under identical title.]
22	No. 22. List of officials connected with dairy interests, 1898; by Henry E. Alvord. Mar. 1, 1898. n. t. p. 8 pp.
231	No. 23. Blackleg: its nature, cause, and prevention; by Victor A. Nörgaard. Mar. 12, 1898. n. t. p. 12 pp.
23 2	Same, rev. ed. Feb. 11, 1899. n. t. p. 15 pp.
23 s	Same, 2d revision. Apr. 21, 1900. n. t. p. 8 pp.
	[Title changed to "Directions for use of blackleg vaccine"; identical with A4.4:21.]
24	No. 24. Colored spots in cheese; by R. A. Pearson. July 22, 1898. n. t. p. 7 pp.
25 1	No. 25. State standards for dairy products. 1898. Oct. 31, 1898. (Circ.)
25 <sup>2</sup>	Same, revised. Mar. 1, 1902. n. t. p. 3 pp.
26	No. 26. Officials, associations, and educational institutions connected with
	dairy interests of U.S. for year 1899; by Henry E. Alvord. Mar. 1, 1899. n. t. p. 8 pp.
27 1	No. 27. Scales of points in use in U. S. for judging dairy breeds of cattle; reprinted from 15th annual report of Bureau of Animal Industry. 1899. 16 pp.
27°	Same, revised. May 8, 1900. n. t. p. 16 pp.
28	No. 28. Letters relating to distribution of vaccine. [1900.] n. t. p. 9 pp.
29	No. 29. Officials, associations, and educational institutions connected with dairy interests for 1900; by Henry E. Alvord. Feb. 24, 1900. n.t.p.
	10 pp.
30	No. 30. Rabies in District of Columbia; by D. E. Salmon. Apr. 30, 1900.  n. t. p. 15 pp.
31 ¹	No. 31. Blackleg, its nature, cause, and prevention; by Victor A. Nörgaard. June 5, 1900. n. t. p. 22 pp.
31 ²	Same, revised. Nov. 10, 1900. n. t. p. 23 pp.
32	No. 32. Imperial German meat inspection law. Feb. 15, 1901. n. t. p.
-	19 pp.
33	No. 33. Officials, associations, and educational institutions connected with dairy interests of U. S., 1901; by Henry E. Alvord. Feb. 23, 1901, n. t. p. 8 pp.
34	No. 34. Notes on parasites, 55-57; by Ch. Wardell Stiles and Albert Hassall. Mar. 26, 1901. n. t. p. 4 pp.
35	No. 35. Treatment of roundworms in sheep, goats, and cattle; by Ch. War
36	dell Stiles. July 24, 1901. n. t. p. 8 pp. No. 36. Officials, associations, and educational institutions connected with
30	dairy interests of U. S., 1902; by Henry E. Alvord. Mar. 1, 1902.  n. t. p. 8 pp.
<b>37</b>	No. 37. Preliminary report on Argentina as a market for pure-bred cattle
38	from U. S.; by D. E. Salmon. Apr. 26, 1902. n. t. p. 4 pp. No. 38. Foot-and-mouth disease, warning to all owners of cattle, sheep, and swine; by D. E. Salmon. Dec. 4, 1902. n. t. p. 3 pp.
A4.5:	B. A. I. Orders (signed by Secretary of Agriculture)
	[From July 1, 1885, to Feb. 19, 1897, ninety circular orders were issued without numbers. The full text of these orders is given in the 14th annual report of the Bureau of Animal Industry, 1897, beginning at p. 324 (A4.1:897).]
1	No. 1. Exportation of beef. Mar. 9, 1897. (Circ.)
21	No. 2. Modifying quarantine line for California. Mar. 19, 1897. (Circ.)

Classifica- tion no.	A4. ANIMAL INDUSTRY BUREAU—Continued
A4.5:	B. A. I. Orders—Continued
2 <sup>2</sup> 3	Same, amended. July 17, 1897. (Circ.) No. 3. Modifying quarantine line for Oklahoma. (Amendment.) Apr. 26, 1897. (Circ.)
4	No. 4. Concerning cattle transportation. May 17, 1897. (Amendment to order dated Jan. 27, 1897.) (Circ.)
5 61	No. 5. Transportation of sheep affected with scabies. June 18, 1897. No. 6. Placing counties in Texas in quarantine. July 6, 1897. (Circ.)
6 <sup>2</sup> 7	Same, amended. July 13, 1897. (Circ.) No. 7. Placing counties in Tennessee in quarantine. Aug. 16, 1897.
·	(Circ.)
8–14	No. 8. Concerning cattle transportation, 1898. Dec. 15, 1897. Nos. 9-14. [Supplementary quarantine regulations, 1898.] Dec. 16, 1897. n. t. p. 9 pp.
15	No. 15. Cattle transportation, feeding stations at Fort Worth, Tex., and Salisbury, N. C. Jan. 3, 1898. (Amendment to no. 8.) (Circ.)
16	No. 16. Cattle transportation, suspending no. 8. Jan. 22, 1898. (Circ.)
17	No. 17. Cattle transportation, amendment to no. 8. Mar. 4, 1898. (Circ.)
18	No. 18. Modifying quarantine line for California; supersedes and revokes no. 9. Mar. 25, 1898. (Circ.)
19	No. 19. Safe transport of cattle to foreign countries. May 11, 1898.  (Amendment to section 18 of order dated Feb. 18, 1895.) (Circ.)
20	No. 20. Placing certain counties in Texas in quarantine (additional to no. 10). Aug. 17, 1898. (Circ.)
21	No. 21. Releasing cattle in counties of Union, Towns, and part of Rabun, Ga., from restrictions. Sept. 7, 1898. (Circ.)
22	No. 22. Placing counties in Texas in quarantine (additional to no. 10).  Sept. 30, 1898. (Circ.)
23	No. 23. Modifying no. 8. Oct. 12, 1898. (Circ.)
24	No. 24. Concerning cattle transportation. Dec. 19, 1898. n. t. p. 4 pp.
25–29	Nos. 25–29. Supplementary quarantine regulations, 1899. Dec. 20, 1898. n. t. p. 6 pp.
30	No. 30. Placing certain counties in Texas in quarantine (additional to no. 25). Jan 9, 1899. (Circ.)
31	No. 31. Concerning cattle transportation (amendment to no. 24). Jan. 9, 1899. (Circ.)
32	No. 32. Concerning cattle transportation (amendment to no. 24). Mar. 8, 1899. (Circ.)
33 ¹	No. 33. Rules and regulations for inspection of live stock, etc. Mar. 15, 1899. n. t. p. 9 pp.
33 2	Same, with general instructions to inspectors, etc. Mar. 15, 16, 1899. n. t. p. 17 pp. 16°. [Title on cover M[eat] I[nspection] rules and regulations and instructions.]
33 *	No. 33. Amendment no. 2. June 21, 1902. (Circ.) [For amendment no. 1, see A4.5:78.]
34	No. 34. Concerning cattle transportation (amendment to no. 29). Mar. 25, 1899. (Circ.)
35 ¹	No. 35. Inspection and safe transport of animals to foreign countries.  May 1, 1899. n. t. p. 11 pp.
35 ²	Same, modifications and extension. Sept. 11, 1899. (Circ.)
36	No. 36. Placing certain counties in Texas in quarantine (additional to no. 25 and no. 30). June 27, 1899. (Circ.)
37	No. 37. Providing for return to non-infected district of cattle exhibited at State fair, Raleigh, North Carolina (supplementary to no. 24). July 18, 1899. (Circ.)
<b>38</b>	No. 38. Dipping of sheep affected with scabies. July 20, 1899. (Circ.)
39	No. 39. Inspection and certification of graded cattle for Cuba. July 21, 1899. 3 pp. (half title.)
40	No. 40. Revocation of no 39. July 28, 1899. (Circ.)
41	No. 41. Releasing cattle in counties of Union, Towns, and part of Rabun, Ga., from restrictions of no. 24. Aug. 1, 1899. (Circ.)
42	No. 42. Placing Washita County, Okla., in quarantine (additional to no. 26). Aug. 4, 1899. (Circ.)

Classifica- tion no.	A4. ANIMAL INDUSTRY BUREAU—Continued
A4.5:	B. A. I. Orders—Continued
43	No. 43. Providing for return to noninfected district of cattle exhibited at State fair, Sacramento, Cal. (supplementary to no. 24). Aug. 28, 1899. (Circ.)
44	No. 44. Providing additional ports of export for Canadian cattle in bond. Aug. 28, 1899. (Circ.)
45	No. 45. Modifying quarantine line for California (amendment to no. 24). Aug. 30, 1899. (Circ.)
46 ¹	No. 46. Superseding no. 35. Oct. 4, 1899. n. t. p. 11 pp.
46 2	Same, amendment no. 1. Nov. 18, 1901. (Circ.)
47	No. 47. Concerning cattle transportation (amendment to no. 24). Oct. 21, 1899. (Circ.)
48	No. 48. Concerning movement of animals from districts in which rabies exists. Dec. 11, 1899. (Circ.)
49	No. 49. Concerning cattle transportation. Dec. 16, 1899. n. t. p. 4 pp. (Also in A4.5:49-55.)
49-55	No. 49. Concerning cattle transportation. Dec. 16, 1899. Nos. 50–55. Supplementary quarantine regulations. 1900. Dec. 19, 1899. n. t. p. 10 pp.
56¹	No. 56. Inspection and quarantine of horses, neat cattle, sheep, and other
	ruminants, and swine, imported. Dec. 28, 1899. n. t. p. 10 pp.
	Same, Amendment no. 1. See A4.5:58.
	Same, Amendment no. 2. See A4.5:64.
	Same, Amendment no. 3. See A4.5:77.
501	Same, Amendment no. 4. See A4.5:79.
56 2	Same, Amendment no. 5. [Cattle may be tested in Europe or Canada.] May 21, 1901. (Circ.)
56 <sup>8</sup>	Same, Amendment no. 6. Oct. 4, 1901. (Circ.)
56 <sup>4</sup>	Same, Amendment no. 7. Oct. 16, 1901. (Circ.)
56 <sup>5</sup>	Same, Amendment no. 8. Nov. 23, 1901. (Circ.)
56 <sup>6</sup>	Same, Amendment no. 9. Mar. 22, 1902. (Circ.)
567	Same, Amendment no. 10. May 7, 1902. (Circ.)
56 8	Same, Amendment no. 11. Aug. 20, 1902. (Circ.)
56°	Same, Amendment no. 12. Oct. 25, 1902. (Circ.)
56 <sup>10</sup>	Same, Amendment no. 13. Dec. 15, 1902. (Circ.)
57 50	No. 57. Cattle transportation (amendment to no. 49). (Circ.) Jan. 20, 1900.
58	No. 58. Inspection and quarantine of horses and other ruminants and swine imported into U.S. Modification of no. 56. Jan. 27, 1900. (Circ.)
<b>59</b>	No. 59. Releasing certain cattle in California from restrictions imposed by Order 49. Feb. 26, 1900. (Circ.)
60	No. 60. Providing for return to noninfected district of cattle exhibited at State fair at Raleigh, N. C. Apr. 6, 1900. (Circ.)
61	No. 61. Exportation of cattle and sheep in vessels carrying hides from foreign countries. Apr. 23, 1900. (Circ.)
62	No. 62. Cattle transportation (amendment to no. 49). May 11, 1900. (Circ.)
63	No. 63. Cattle transportation (amendment to no. 49). May 16, 1900. (Circ.)
64	No. 64. Inspection and quarantine of horses and other ruminants and swine, imported into U.S. (amendment to no. 56). June 1, 1900. (Circ.)
65	No. 65. Providing for importation of Canadian cattle for exhibition purposes at Pan-American Exposition, Buffalo, N. Y. June 15, 1900. (Circ.)
66	No. 66. Regulations concerning cattle transportation (amendment to no. 49). July 13, 1900. (Circ.)
67	No. 67. Providing for importation of Canadian cattle, sheep, and swine for exhibition purposes at International Livestock Exposition, Chicago, Ill. July 13, 1900. (Circ.)
68	No. 68. Revoking no. 63. Aug. 13, 1900. (Circ.)
69	No. 69. Supplemental to nos. 55 and 59. Aug. 18, 1900. (Circ.)
70	No. 70. Supplementary to no. 49. Aug. 20, 1900. (Circ.)
71	No. 71. Revoking no. 66. Aug. 23, 1900. (Circ.)

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tion no.
A4.5:
         B. A. I. Orders—Continued
         No. 72. Amendment to nos. 49 and 51. Aug. 29, 1900.
   72
                                                                  (Circ.)
   73
         No. 73. Providing for exhibition of uninspected cattle at Golden Gate
                Fair (supplemental to nos. 55 and 59). Sept. 8, 1900. (Circ.)
         No. 74. Amendment to nos. 49 and 51. Sept. 17, 1900.
   74
                                                                  (Circ.)
   75
         No. 75. Amendment to nos. 49 and 50. Sept. 26, 1900.
                                                                  (Circ.)
         No. 76. Amendment to no. 49. Oct. 9, 1900. (Circ.)
   76
   77
         No. 77. Inspection and quarantine of horses and other ruminants, and
                swine, imported (amendment to no. 56). Oct. 20, 1900. (Circ.)
   78
         No. 78. Inspection of live stock and products (amendment to no. 33).
                Oct. 22, 1900. (Circ.)
   79
         No. 79. Inspection and quarantine of horses and other ruminants, and
                swine, imported (amendment to no. 56). Nov. 10, 1900. (Circ.)
80-871
         No. 80. Regulations concerning cattle transportation; Nos. 81-87, supple-
                mentary quarantine regulations (amendments nos. 1-7). Dec.
                10-14, 1900. n. t. p. 12 pp.
             See for amendment no. 8, A4.5:88; for amendment no. 9, A4.5:89.
80–87 ×
                                        Jan. 31, 1901.
             Same, Amendment no. 10.
                                                        (Circ.)
                                        Feb. 5, 1901.
80–87 *
             Same, Amendment no. 11.
                                                        (Circ.)
80-87 4
             Same, Amendment no. 12.
                                         Apr. 18, 1901.
                                                         (Circ.)
80–87 °
             Same, Amendment no. 13.
                                         Apr. 20, 1901.
                                                         (Circ.)
80-87°
                                         July 13, 1901.
                                                         (Circ.)
             Same, Amendment no. 14.
80–87 <sup>7</sup>
             Same, Amendment no. 15.
                                         Aug. 21, 1901.
                                                         Circ.)
80-87°
                                                       (Circ.)
                                         Oct. 3, 1901.
             Same, Amendment no. 16.
80-87°
                                        Oct. 15, 1901.
             Same, Amendment no. 17.
                                                        (Circ.)
80<del>-</del>87 <sup>10</sup>
             Same, Amendment no. 18.
                                         Oct. 22, 1901.
                                                        (Circ.)
                                        Dec. 22, 1900.
   88
                                                         (Circ.)
         No. 88. Amendment to no. 80.
   89
         No. 89. Amendment to no. 80. Dec. 22, 1900.
                                                         (Circ.)
   80
         No. 90. Importation of Canadian cattle, sheep, and swine for exhibition
                at Chicago. Sept. 12, 1901. (Circ.)
         No. 91. Rules and regulations for inspection and marking dairy products
   91
                for export. Oct. 30, 1901. n. t. p. 3 pp.
   92
         No. 92. Prohibiting landing of animals from Philippine Islands. Dec. 13,
                        (Circ.)
                 1901.
   931
         No. 93. Regulations concerning cattle transportation.
                                                                   Jan. 10, 1902.
                (Contains amendments 1-8 to no. 93, and changes in quarantine
                line for 1902.) n. t. p.
                                        16 pp.
   93 2
                                       Jan. 23, 1902.
            Same, Amendment no. 9.
                                                       (Circ.)
   93 a
                                                        (Circ.)
            Same, Amendment no. 10.
                                        Feb. 13, 1902.
   934
                                                        (Circ.)
            Same, Amendment no. 11.
                                        Mar. 1, 1902.
                                        Mar. 14, 1902.
   93 5
            Same. Amendment no. 12.
                                                        (Circ.)
   93 •
                                                         (Circ.)
            Same, Amendment no. 13.
                                         Apr. 16, 1902.
   937
                                        June 28, 1902.
            Same, Amendment no. 14.
                                                         (Circ.)
   93 8
            Same, Amendment no. 15.
                                        July 30, 1902.
                                                        (Circ.)
   93,
                                                        (Circ.)
            Same, Amendment no. 16.
                                        July 30, 1902.
   93 10
                                                          Circ.)
            Same, Amendment no. 17.
                                        Sept. 10, 1902.
   93 11
            Same, Amendment no. 18.
                                         Oct. 10, 1902.
                                                        (Circ.)
                                                         Circ.)
   93 12
                                        Oct. 22, 1902.
            Same. Amendment no. 19.
         No. 94. Rules and regulations in regard to "renovated butter," and
   94
              information concerning "adulterated butter." June 21, 1902.
              n. t. p. 12 pp.
   95
         No. 95. Importation of Canadian animals for exhibition at State fair,
              Syracuse, N. Y. June 26, 1902. (Circ.)
         No. 96. Importation of Canadian cattle, sheep, and swine for exhibition at
   96
              International Live-stock Exhibition, Chicago. July 16, 1902. (Circ.)
   97
         No. 97. Extracts from existing laws, with rules and regulations as therein
                provided, prescribed for inspection and certification of renovated
                butter and other dairy products for export. Oct. 1, 1902. n. t. p.
                6 pp.
            [Printed "No. 96," changed with rubber stamp to "No. 97."]
         No. 98. Rules and regulations prescribed in regard to "renovated butter,"
  98
                in accordance with act of Congress approved May 9, 1902, and
                information concerning "adulterated butter." Nov. 1, 1902.
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A4. ANIMAL INDUSTRY BUREAU—Continued

Classifica-

n. t. p. 16 pp.

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Tables
Classifica-
                 A4. ANIMAL INDUSTRY BUREAU—Continued
 tion no.
           B. A. I. Orders—Continued
 A4.5:
           No. 99 Quarantine of cattle, sheep, and other ruminants, and swine in
     991
                 New England States. Nov. 27, 1902.
                                                        (Circ.)
     99 3
              Same, Amendment no. 1. Nov. 29, 1902.
                                                          (Circ.)
              Same, Amendment no. 2. Dec. 13, 1902.
     88_{2}
                                                          Circ.)
     994
              Same, Amendment no. 3. Dec. 22, 1902.
                                                          (Circ.)
           No. 100. Prohibition of exportation of cattle, sheep, and other ruminants,
    100
                 and swine from port of Boston. Nov. 27, 1902.
                                                                  (Circ.)
    101
           No. 101 Concerning cattle transportation. Dec. 26, 1902.
                                                                           (Contains
                 amendments nos. 1-9.) n. t. p. 15 pp.
           Map of districts infected with spienetic fever
  A4.6: 🕟
     891
           1891, Feb. 5.
     892
           1892, Feb. 26.
           1893, Feb. 15.
     893
     894
           1894, Feb. 5.
           1895, Feb. 5.
     895
     896
           1896, June.
     897
           1897, Feb.
     898
           1898, Jan. 1.
     899
           1899, Jan. 1.
     900
           1900, Jan. 1.
           1901, Jan. (in 5 sections).
     901
                       A5. BIOLOGICAL SURVEY
[Formerly known as Division of Ornithology and Mammalogy or Economic Ornithology and Mammalogy. For historical sketch of Division, see Yearbook, 1897 (A1.10:897), p. 115.]
  A5.1: | Annual reports
           URNITHOLOGIST
     886
           1886 (Merriam), [1]+227-258 pp. 1 map. (Also in Al.1:886, p. 227.)
     887
           1887 (Merriam), iii+399-456+ii pp. 1 pl. (Also in A1.1:887, p. 399.)
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ORNITHOLOGIST AND MAMMALOGIST
     1888 (Merriam), iii + 477 - 536 pp. 1 pl. (Also in A1.1:888, p. 477.)
888
     1889 (Merriam), [1]+363-376 pp. 2 pl. (Also in A1.1:889, p. 363.)
889
890
     1890 (Merriam), iii+277-285 pp. (Also in Al.1:890, p. 277.)
     1891 (Merriam), [1]+267-271 pp. (Also in A1.1:891, p. 267.)
891
     1892 (Merriam), [1]+181-200 pp., 5 pl. (Also in A1.1:892, p. 181.)
892
893
     1893 (Merriam), iii+227-234 pp., 1 map. (Also in A1.1:893, p. 227.)
                       (In A1.1:894, p. 227.)
     1894 (Merriam).
     1895 (Merriam).
                       (In Al.1:895, p. 175.)
896
     1896 (Merriam), iii+23-25 pp. (Also in A1.1:896, p. 23.)
     Division of Biological Survey
897
     1897 (Merriam), ii+15-20 pp.
                                    (Also in A1.1:897, p. 15.)
     ACTING CHIEF, DIVISION OF BIOLOGICAL SURVEY
     1898 (Palmer), iii+37-42 pp. (Also in A1.1:898, p. 37.)
898
899
     1899 (Palmer), iii+59-70 pp.
                                    (Also in A1.1:899, p. 59.)
     1900 (Palmer), ii + 35-48 pp.
900
                                   (Also in A1.1:900, p. 35.)
     1901 (Palmer), iii+151-162 pp. (Also in A1.1:901, p. 151.)
901
     CHIEF OF BIOLOGICAL BURVEY
902
     1902 (Merriam), iii+209-218 pp. (Also in A1.1:902, p. 209.)
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#### **A5.2.** General publications

[Publications which originated in this division, but which were published in a numbered series of the Secretary's office, or some other division of the Department, are entered only where such numbering places them, with references under the proper headings in the index to this work. Publications of this division issued only as Congressional documents are noted in chronological order in the appendix to this work.]

## A5.3: Bulletins

- No. 1. English sparrow (Passer domesticus) in North America, especially in its relation to agriculture; by Walter B. Barrows. 1889. 405 pp. 1 map.
- No. 2. Bird migration in Mississippi Valley, 1884 and 1885; by W.W. Cooke. Edited and revised by C. Hart Merriam. 1888. 313 pp. 1 map.

#### Classifica-A5. BIOLOGICAL SURVEY—Continued tion no. Bulletins—Continued A5.3: 3 No. 3. Hawks and owls of U.S. in their relation to agriculture; by A.K. Fisher. 1893. 210 pp. 26 pl. No. 4. Prairie ground squirrels, or spermophiles, of Mississippi Valley; by 4 Vernon Bailey. 1893. 69 pp. 5 pl. No. 5. Pocket gophers of U. S.; by Vernon Bailey. 1895. 47 pp. 2 pl. 5 No. 6. Common crow of U. S.; [articles] by Walter B. Barrows and E. A. 6 Schwarz. 1895. 98 pp. 1 pl. 7 No. 7. Preliminary report on food of woodpeckers, by F. E. L. Beal; Tongues of woodpeckers, by F. A. Lucas. 1895. 44 pp. 4 pl. No. 8. Jack rabbits of U. S.; by T. S. Palmer. 1896. 84 pp. 7 pl. 81 Same, revised ed. 1897. 88 pp. 7 pl. 82 No. 9. Cuckoos and shrikes in their relation to agriculture; Food of 9 cuckoos, by F. E. L. Beal, [and] Food of shrikes, by Sylvester D. Judd. 1898. 26 pp. 1 pl. 10 No. 10. Life zones and crop zones of U.S.; by C. Hart Merriam. 1898. 79 pp. 1 map. No. 11. Geographic distribution of cereals in North America; by C. S. 11 Plumb. 1898. 24 pp. 1 map. 12<sup>1</sup> No. 12. Legislation for protection of birds other than game birds; by T. S. Palmer. 1900. 94 pp. 2 pl. 122 Same, revised ed., 1902. 143 pp. 4 pl. No. 13. Food of bobolink, blackbirds, and grackles; by F. E. L. Beal. 13 1900. 77 pp. 1 pl. No. 14. Laws regulating transportation and sale of game; by T. S. Palmer 14 and H. W. Olds. 1900. 89 pp. 9 pl. 1 folder table. No. 15. Relation of sparrows to agriculture; by Sylvester D. Judd. 15 98 pp. 4 pl. 16 No. 16. Digest of game laws for 1901; by T. S. Palmer and H. W. Olds. 1901. 152 pp. 8 pls. 2 folder tables. No. 17. Birds of a Maryland farm, a local study of economic ornithology; 17 by Sylvester D. Judd. 1902. 116 pp. 17 pl. **Bulletins** (separates) A5.3a: [A few of the more important papers contained in the Bulletins have been issued separately. References to all the papers will be found under their proper headings in the index to this work.] A5.4: Circulars 11 No. 1. On food habits of birds. Out of print.\* 1 2 Same, 2d edition. Oct. 12, 1886. n. t. p. [3] pp. No. 2. On English sparrow. July 20, 1886. (Circ.) 2 No. 3. On economic relations of mammals. July 27, 1886. n. t. p. No. 4. [Leaflet relating to collection of birds' stomachs. Nov., 1886.] (Circ.) No. 5. To rice growers. n. d. (Circ.) 61 No. 6. Acknowledgment of receipt of schedule on English sparrow. Out of print.\* 62 Same, 2d edition. n. d. No. 7. To postmasters in relation to English sparrow. Nov. 8, 1886. (Circ.) No. 8. On geographical distribution and migration of North American 8 birds for 1887. Feb. 23, 1887. n. t. p. [4] pp. No. 9. On gophers. July 30, 1888. (Circ.) 9 No. 10. On killdeer plover. Jan. 15, 1889. (Circ.) 10 No. 11. Brief directions for measurement of small mammals, and prepa-11 ration of museum skins; by C. Hart Merriam. 1889. 4 pp. 1 pl. 12 No. 12. Directions for collecting the stomachs of birds. Apr. 25, 1891. n. t. p. [3] pp. No. 13. [For acknowledging receipt of North American Fauna.] n. d. 13 141 No. 14. [For acknowledging receipt of North American Fauna 7.] n. d. (Circ.) 14 2 Same. [North American Fauna 8.] n. d. (Circ.)

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#### Classification no.

## A5. BIOLOGICAL SURVEY—Continued

A5.4:	Circulars—Continued
15	No. 15. [For acknowledging receipt of North American Fauna 10.] Jan.
16	1896. (Circ.)  No. 16. [For acknowledging receipt of North America Fauna 11.] July,  1896 (Circ.)
17¹	No. 17. Bird day in the schools. July 2, 1896. n. t. p. 4 pp.
172	Same, reprint with additions. n. t. p. 4 pp.
18	No. 18. [For acknowledging receipt of North American Fauna 12.] n. d. (Circ.)
19	No. 19. In relation to bounties on mammals and birds. n. d. (Circ.)
20	No. 20. Distribution and sale of publications. Oct. 20, 1896. n. t. p. 2 pp.
21	No. 21. Geographic distribution of North American cereals. Jan. 4, 1897 (Circ.)
22	No. 22. Geographic distribution of North American cereals. Mar. 1, 1897 (Circ.)
23	No. 23. [For acknowledging receipt of North American Fauna 13.] Oct., 1897. (Circ.)
24	No. 24. [For acknowledging receipt of North American Fauna 14.] May 1, 1899. (Circ.)
25	No. 25. [For acknowledging receipt of North American Fauna 15.] Aug 10, 1899. (Circ.)
26	No. 26. [For acknowledging receipt of North American Fauna 16.] Oct. 31, 1899. (Circ.)
27	No. 27. [For acknowledging receipt of North American Fauna 17.] May 31 [June 6], 1900. (Circ.)
28	No. 28. Directory of State officials and organizations concerned with protection of birds and game. July 10, 1900. n. t. p. 8 pp.
29	No. 29. Protection and importation of birds under act of Congress approved May 25, 1900. July 13, 1900. n. t. p. 6 pp.
30	No. 30. Wild animals and birds which may be imported without permits.  Sept. 13, 1900. (Circ.)
31	No. 31. Information concerning game: Seasons, shipment, and sale; by T. S. Palmer and H. W. Olds. Oct. 25, 1900. n. t. p. 20 pp.
321	No. 32. Directions for destruction of prairie dogs; by C. Hart Merriam. Feb. 21, 1901. n. t. p. 2 pp.
322	Same, revised. Jan. 30, 1902. n. t. p. 2 pp.
33	No. 33. Protection of birds and game, directory of State officials and organizations for 1901; by T. S. Palmer. Apr. 18, 1901. n. t. p. 10 pp.
34	No. 34. Laws for protection of birds and game in District of Columbia; by T. S. Palmer. Oct. 25, 1901. n. t. p. 8 pp.
35	No. 35. Directory of State officials and organizations concerned with protection of birds and game, 1902; by T. S. Palmer. Apr. 15, 1902.
36	n. t. p. 10 pp.  No. 36. Importation of reptiles into Hawaii, order for prevention of.
37	[Amendment to circular no. 30] May 22, 1902. (Circ.)  No. 37. Regulations for importation of eggs of game birds for propagation.
38	June 9, 1902. n. t. p. 2 pp.  No. 38. Interstate commerce in birds and game. Aug. 23, 1902. n. t. p. 3 pp.
AR R.	North American fauna
<b>1</b>	
	No. 1. Revision of North American pocket mice; by C. Hart Merriam.  1889. vii+36 pp. 4 pl.
2	No. 2. Descriptions of fourteen new species and one new genus of North

- No. 2. Descriptions of fourteen new species and one new genus of North American mammals; by C. Hart Merriam. 1889. v+52 pp. 8 pl. No. 3. Results of a biological survey of San Francisco mountain region
- No. 3. Results of a biological survey of San Francisco mountain region and desert of the Little Colorado, Arizona; [articles] by C. Hart Merriam and Leonhard Stejneger. 1890. vii+136 pp. 14 leaves 14 pl. 5 maps.
- No. 4. Descriptions of twenty-six new species of North American mammals; by C. H. Merriam. 1890. v+60 pp. 3 pl. 1 table.

#### Classification no.

## A5. BIOLOGICAL SURVEY—Continued

# A5.5: | North American fauna—Continued

No. 5. Results of a biological reconnaissance of south central Idaho; [articles] by C. H. Merriam and Leonhard Stejneger; Descriptions of new genus and two new species of North American mammals, by C. Hart Merriam. 1891. vii+128 pp. 4 pl.

No. 6. Death Valley expedition, pt. 1. Not published.

No. 7. Death Valley expedition, a biological survey of parts of California, Nevada, Arizona, and Utah, pt. 2; [reports by] A. K. Fisher [and others]. 1893. 402 pp. 19 pl.

No. 8. Monographic revision of the pocket gophers, family Geomyidæ, exclusive of species of Thomomys; by C. Hart Merriam. 1895. 258 pp. 23 pl.

No. 9. Not published.

No. 10. Revision of shrews of American genera Blarina and Notiosorex, by C. Hart Merriam; Long-tailed shrews of eastern U. S., by Gerrit S. Miller, jr.; Synopsis of American shrews of genus Sorex, by C. Hart Merriam. 1895. 124 pp. 12 pl.

11 No. 11. Synopsis of weasels of North America; [by] C. Hart Merriam. 1896. 44 pp. 6 pl.

No. 12. Genera and subgenera of voles and lemmings; by Gerrit S. Miller, jr. 1896. 84 pp. 3 pl.

No. 13. Revision of North American bats of family Vespertilionidæ; by Gerrit S. Miller, jr. 1897. 140 pp. 3 pl.

No. 14. Natural history of Tres Marias Islands, Mexico; General account of islands, with reports on mammals and birds, by E. W. Nelson; Reptiles, by Leonhard Stejneger; Crustacea, by Mary J. Rathbun; Plants, by J. N. Rose; Bibliography, by E. W. Nelson. 1899. 97 pp. 1 pl.

No. 15. Revision of jumping mice of genus Zapus; by Edward A. Preble. 1899. 42 pp. 1 pl.

No. 16. Results of biological survey of Mt. Shasta, Cal.; by C. Hart Merriam. 1899. 179 pp. 5 pl.

17 No. 17. Revision of American voles of genus Microtus; by Vernon Bailey. 1900. 88 pp. 5 pl.

No. 18. Revision of pocket mice of genus Perognathus; by Wilfred H. Osgood. 1900. 72 pp. 4 pl.

No. 19. Results of a biological reconnoissance of Yukon River region; General account of region [and] annotated list of mammals, by Wilfred H. Osgood; Annotated list of birds, [by] Louis B. Bishop. 1900. 100 pp. 7 pl.

No. 20. Revision of skunks of genus Chincha; by Arthur H. Howell. 1901. 62 pp. 8 pl.

No. 21. Natural history of Queen Charlotte Islands, British Columbia; natural history of Cook Inlet region, Alaska; by Wilfred H. Osgood. 1901. 87 pp. 7 pl.

No. 22. Biological investigation of Hudson Bay region; by Edward A. Preble. 1902. 140 pp. 14 pl.

# A5.5a: North American fauna (separates)

[A few of the more important papers contained in the North American Fauna have been issued separately. References to all the papers will be found under their proper headings in the index to this work.]

#### A6. BOTANY DIVISION

[Merged into Bureau of Plant Industry, July 1, 1901, see A 19. For historical sketch of Division, see Yearbook 1897 (A1.10:897), p. 90.]

# A6.1: | Annual reports

21

22

1869 (Parry) (In Al.1:869, p. 91.) 1870 (Parry) (In Al.1:870, p. 108.)

1871 No report made.

1872 (Vasey) (In A1.1:872, p. 159.)

1873 No report made.

1874 (Vasey) (In A1.1:874, p. 156.)

Classification no.

# A6. BOTANY DIVISION—Continued

#### A6.1: Annual reports—Continued 1875 No report made. 1876 (Vasey) (In A1.1:876, p. 73.) 1877 No report made. 1878 [No regular annual report appears, but a "Report of the Botanist and Chemist on grasses and forage plants, by George Vasey and Peter Collier," appears in the Secretary's report for 1878, pp. 157-194. See A1.1:878]. (In A1.1:879, p. 349.) 1879 (Vasey). 1880 (Vasey). (In A1.1:880, p. 375.) 1881 and 1882 (Vasey). (Ir. A1.1:881-2, p. 231.) 1883 (Vasey). (In A1.1:883, p. 83.) 1884 (Vasey). (In A1.1:884, p. 123.) 1885 (Vasey). (In Al.1:885, p. 63.) 886 1886 (Vasey), [1] + 69-93 pp. 21 pls. (Also in A1.1:886, p. 69.) (In A1.1:887, p. 301.) 1887 (Vasey). (Also in A1.1:888, p. 305.) (Also in A1.1:889, p. 377.) [1]+305-324 pp. 1888 ( 13 pls. 888 Vasey), (Vasey), [1]+377-396 pp. (Vasey), [1]+375-392 pp. 889 1889 11 pls. (Vasey), (Also in A1.1:890, p. 375.) 890 1890 8 pls. [1]+341-358 pp. 10 pls. (Also in A1.1:891, p. 341.) (Vasey), 891 1891 **892** 1892 (Vasey), [1]+201-214. 9 pls. (Also in A1.1:892, p. 201.)893 1893 (Coville), iii + 235 - 244 pp. (Also in Al.1:893, p. 235.) 894 1894 (Coville), iii+161-166 pp. (Also in A1.1:894, p. 161.) 1895 (Coville), iii + 159 - 164 pp. 895 (Also in Al.1:895, p. 159.) 1896 (Coville), iii+95-102 pp. (Also in A1.1:896, p. 95.) 896 1897 (Coville), ii+167-172 pp. 897 (Also in A1.1:897, p. 167.) 1898 (Coville), iii+153-158 pp. **898** (Also in A1.1:898, p. 153.) 1899 (Coville), iii+53-57 pp. (Also in A1.1:899, p. 53.) 899 (Also in A1.1:900, p. 91.) 1900 (Coville), iii+91-101 pp. 900 1901 (Coville). [This final report of the Division was made through the chief of the Bureau of Plant Industry, forming part of his annual report for 1901. (See A1.1:901, p. 62; also A19.1:901, p. 67.)] A6.1a: Annual reports (separates) [A few of the more important papers contained in the annual reports lave been issued separately. References to all the papers will be found under their proper headings in the index to this work.] A6.2: General publications [Publications which originated in this Division but which were published in a numbered series of the Secretary's office, or some other division of the Department, are entered only where such numbering places them, with references under the proper headings in the Index to this work. Publications of the Division issued only as Congressional documents are noted in chronological order in the Appendix to this work.] **B65** Botanical Exchange Club. Rules for Botanical Exchange Club; by George Vasey. n. d. (Circ.) Grasses of U.S. Descriptive catalogue of grasses of U.S., including **G76** especially grass collections at New Orleans Exposition made by U.S. Department of Agriculture and State exhibits of grasses, with notes on such species as are more or less employed in agriculture or deserving of trial and cultivation; by Geo. Vasey. 1885. Washington, Gibson Bros. 1885. 110 pp. [Pulished as report of Agriculture Department at World's Industrial and Cotton Centennial. "Said to have been printed at Gibson Bros. to save expense. Paid for from Exposition funds."—(Written note on t. p. of copy in file of Agriculture Department, Publications Division.)] Instructions to botanical collectors; by Geo. Vasey. n. d. (Circ.) In7 North American grasses. Illustrations of North American grasses, vol. 1. Grasses of the Southwest; plates and descriptions of grasses of desert N82<sup>1</sup> region of western Texas, New Mexico, Arizona, and southern California; by Geo. Vasey. 1891. vii+[2]+7+[2] pp. 49 l. 50 pl. and 7+[2] pp. 49 l. 50 pl. Large 8°. (Reissue of Botany Bul-

letin no. 12. pts. 1, 2.)

#### Classification no.

# A6. BOTANY DIVISION—Continued

# A6.2: | General publications—Continued

- N82<sup>2</sup> North American grasses. Grasses of the Pacific slope, including Alaska and adjacent islands; plates and descriptions of grasses of California, Oregon, Washington, and the northwestern coast, including Alaska; by Geo. Vasey. 1893. viii+[4] pp. 98 l. 100 pl. large 8°.

  [Relssue of Botany Bulletin no. 13, pts. 1, 2.]
- P69 Plant breeding and seed selection; by Frederick V. Coville. June 22, 1898. n. t. p. 2 pp.

### A6.3: Builetins

3

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- No. 1. Investigation of grasses of arid districts of Kansas, Nebraska, and Colorado; by George Vasey. 1886. 19 pp. 13 pl.
  - No. 2. Fungus diseases of grape vine; by Frank Lamson-Scribner. 1886.
    136 pp. 7 pl.
    - No. 3. Grasses of the South, report on certain grasses and forage plants for cultivation in South and Southwest; by George Vasey. 1887. 63 pp. 16 pl.
  - No. 4. Desiderata of herbarium for North America north of Mexico.
    Ranunculaceæ to Rosaceæ, inclusive; by Geo. Vasey.
    (Distributed among botanists with the purpose of obtaining specimens.) 1887. 15 pp.
    - No. 5. Experiments made in 1887 in treatment of downy mildew and black-rot of grapevine with chapter on apparatus for applying remedies for these diseases; by F. Lamson-Scribner. 1888. 113 pp. 1 table.
  - [No. 6. Grasses of arid districts.] Investigation of grasses of arid districts of Texas, New Mexico, Arizona, Nevada, and Utah, in 1887. 1888. 61 pp. 30 pl.
    - [The Department and Division designation and the bulletin number and series titles as bracketed above appear only on the cover.]
  - No. 7. Black rot [of grape vine]; by F. Lamson-Scribner and Pierre Viala.
    1888. 29 pp. 1 pl.
    No. 8. Record of some work of division, including extracts from corre-
    - No. 8. Record of some work of division, including extracts from correspondence and other communications; [articles] prepared by George Vasey and B. T. Galloway. 1889. 67 pp.
  - 9 No. 9. Peach yellows, a preliminary report; by Erwin F. Smith. 1888. 254 pp. 46 pl.
  - No. 10. Experiments made in 1888 in treatment of downy mildew and black rot of grape vine. 1889. 61 pp. 2 pl.
  - No. 11. Experiments made in 1889 in treatment of fungous diseases of plants; prepared by B. T. Galloway. 1890. 119 pp. 7 pl. [Plates numbered to eight, but plate 1 is page 26.]
  - No. 12. Grasses of the Southwest; plates and descriptions of grasses of desert region of western Texas, New Mexico, Arizona, and southern California; by Geo. Vasey. Pt. 1, 1890. 7+[2] pp. 49 l. 50 pl. large 8°.
- Same, pt. 2. 1891. 7+[4] pp. 49 l. 50 pl. large 8°. (Title-page and table of contents for vol. 1, Illustrations of North American Grasses, appended to this part.)
  - [Bulletin no. 12, pts. 1, 2, also issued as vol. 1, Illustrations of North American Grasses. See A6.2:N82 1.]
  - No. 13. Grasses of Pacific Slope, including Alaska and adjacent islands; plates and descriptions of grasses of California, Oregon, Washington, and the northwestern coast, including Alaska; by Geo. Vasey. Pt. 1. 1892. 7+[2] pp. 49 l. 50 pl. large 8°.
  - Same, pt. 2. 1893. 7+[2] pp. 49 l. 50 pl. large 8°. (Title-page and table of contents for vol. 2, Illustrations of North American Grasses, appended to this part.)
    - [Bulletin no. 13, pts. 1, 2, also issued as vol. 2, Illustrations of North American Grasses See A6.2: N82\*.]
- No. 14. Ilex cassine, aboriginal North American tea, its history, distribution, and use among native North American Indians; by E. M. Hale. 1891. 22 pp. 1 pl.

No. 6. Standards of the purity and vitality of agricultural seeds; by Gilbert

No. 7. Tumbling mustard, by Lyster H. Dewey. June 5, 1896. n. t. p. 71 8 pp.

Same, 2d ed. June 5, 1896. n. t. p. 8 pp. 72

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No. 8. Crimson clover hair balls; by Frederick V. Coville. June 15, 1896. n. t. p. 4 pp.

91 No. 9. Wild garlic; by Lyster H. Dewey. Feb. 15, 1897. n. t. p. 8 pp. Same, revised. June 2, 1900. n. t. p. 8 pp. 93

No. 10. Three new weeds of mustard family; by Lyster H. Dewey. Apr. 30, 1897. n. t. p. 6 pp.

No. 11. Vitality of seed treated with carbon bisulphid; by Gilbert H. Hicks and John C. Dabney. n. d. n. t. p. 5 pp.

12¹ No. 12. Camphor tree; by Lyster H. Dewey. Aug. 12, 1897. n. t. p. 7 pp.  $12^2$ 

Same, revised. Sept. 21, 1897. n. t. p. 8 pp.

No. 13. Observations on recent cases of mushroom poisoning in District \ 13<sup>1</sup> of Columbia; by Frederick V. Coville. Dec. 1, 1897. n. t. p. 21 pp.

Same, rev. ed. Jan. 4, 1898. n. t. p. 24 pp. · 13 \* Same, 3d ed. May 15, 1899. n. t. p. 24 pp. . 138

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tion no.	

## A6. BOTANY DIVISION—Continued

## A6.4: | Circulars—Continued

- No. 14. Dodders infesting clover and alfalfa; by Lyster H. Dewey. Apr. 25, 1898. n. t. p. 7 pp.
- 15 | No. 15. Horse-radish; by M. G. Kains. May 20, 1898. n. t. p. 8 pp.
- No. 16. Section of seed and plant introduction; by O. F. Cook. Jan. 25, 1899. n. t. p. 6 pp.
- 17 No. 17. Notes on plant products of Philippine Islands; by Frank H. Hitcheock. May 15, 1899. n. t. p. 8 pp.
- 18<sup>1</sup> No. 18. Crimson clover seed; by A. J. Pieters. Aug. 5, 1899. n. t. p. 4 pp. 18<sup>2</sup> Same, revised. July 20, 1900. n. t. p. 7 pp.
- No. 19. Hop cultivation in Bohemia; by David G. Fairchild. Oct. 10, 1899. n. t. p. 6 pp.
- No. 20. Horse-radish culture in Bohemia; by David G. Fairchild. Dec. 15, 1899. n. t. p. 3 pp.
- No. 21. Yams in West Indies; by David G. Fairchild. Dec. 6, 1899.
  n. t. p. 4 pp.
- No. 22. Bur, or globe, artichokes; by Walter T. Swingle and David G. Fairchild. Dec. 11, 1899. n. t. p. 6 pp.
- No. 23. Lebbek or siris tree; by David G. Fairchild. Feb. 3, 1900.
  n. t. p. 4 pp.
- No. 24. Red clover seed; by Adrian J. Pieters. Mar. 6, 1900. n. t. p. 5 pp.
- No. 25. Seed of beardless brome grass; by A. J. Pieters. Mar. 10, 1900.
  n. t. p. 5 pp.
  No. 26. Egyptian cotton in U. S.; by Lyster H. Dewey. Mar. 16, 1900.
- No. 26. Egyptian cotton in U. S.; by Lyster H. Dewey. Mar. 16, 1900.'

  n. t. p. 9 pp.
- 27<sup>1</sup> No. 27. Canada thistle; by Lyster H. Dewey. May 15, 1900. n. t. p. 14 pp.
- 27<sup>2</sup> Same, revised. 1901. n. t. p. 14 pp.
- No. 28. Rubber cultivation for Porto Rico; by O. F. Cook. June 22, 1900. n. t. p. 12 pp.
- 29 No. 29. Chicory growing; by Maurice G. Kains. Oct. 30, 1900. n. t. p. 12 pp.
  - No. 30. List of publications of Division of Botany; by Frederick V. Coville. May 17, 1901. n. t. p. 10 pp.
    Same, revised edition, Dec. 29, 1902. n. t. p. 12 pp.

# A6.5:

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#### Contributions from U.S. national herbarium

- [The U. S. National Herbarium, founded by the Smithsonian Institution, was transferred to the Agriculture Department in 1868, and returned to the custody of the Smithsonian Institution, July 1, 1896. The Agriculture Department, however, continued to publish this series of botanical reports until July 1, 1902, when, in pursuance of an act of Congress, the National Museum assumed the responsibility of the publication.]
- V. 1. Reports on collections and miscellaneous papers. 1890–1895.
  - No. 1. List of plants collected by Edward Palmer in 1888 in South Carolina, by George Vasey and J. N. Rose; List of plants collected by Edward Palmer at Lagoon Head, Cedros Island, San Benito Island, Guadalupe Island, Head of Gulf of California, by George Vasey and J. N. Rose. 1890. vii +28 pp.
  - No. 2. Collection of plants made by G. C. Nealley in region of Rio Grande in Texas, from Brazos Santiago to El Paso County; by John M. Coulter. 1890. iii+29-65 pp, No. 3. List of plants collected by Edward Palmer in 1890 in Lower California and western Mexico, at La Paz, San Pedro, Martin Island, Raza Island, Santa Rosalia, and Santa Agueda, Guaymas; by George Vasey and J. N. Rose. 1890. vi+63-90 pp. 1 pl.
  - No. 4. List of plants collected by Edward Palmer in 1890 in western Mexico and Arizona, at Alamos and [in] Arizona; by J. N. Rose. 1891. vii+91-127 pp. 10 pl. No. 5. List of plants collected by Edward Palmer in 1890 on Carmen Island, by J. N. Rose; List of plants collected by U. S. S. Albatross in 1887-91 along western coast of America, [articles] by J. N. Rose, D. C. Eaton, J. W. Eckfeldt, and A. W. Evans; Revision of North American species of Hoffmanseggia, by E. M. Fisher; Systematic and alphabetic index of new species of North American phanerogams and pteridophytes, published in 1891, by Josephine A. Clark. 1892. x+129-188
  - No. 6. List of plants collected by C. S. Sheldon and M. A. Carleton in Indian Territory in 1891, by J. M. Holzinger; Observations on native plants of Oklahoma Territory and adjacent districts, by M. A. Carleton. 1892. ix+189-232 pp. 2 pl. No. 7. Systematic and alphabetic index to new species of North American phan-
    - No. 7. Systematic and alphabetic index to new species of North American phanerogams and pteridophytes published in 1892; by Josephine A. Clark. 1893. iii+288-264+iii pp.

## **BOTANY DIVISION—Continued**

#### Contributions from U. S. national herbarium—Continued A6.5:

- V. 1. Reports on collections and miscellaneous papers—Continued 1
  - Contents—Continued No. 8. Notes on some Pacific coast grasses, by George Vasey; Descriptions of new or noteworthy grasses from U.S., by George Vasey; Descriptions of new grasses from Mexico, by George Vasey; Descriptions of new plants from Texas and Colorado, by J. M. Holzinger; List of plants new to Florida, by J. M. Holzinger; Descriptions of three new plants, by J. N. Rose; List of lichens from California and Mexico, collected by Edward Palmer from 1888 to 1892, by J. W. Eckfeldt. 1898. iii + 265 - 292 + ii pp. 5 pl.

No. 9. Report on collection of plants made in States of Sonora and Colima, Mexico by Edward Palmer, in 1890 and 1891; by J. N. Rose. 1895. v+298-434 pp. 18 pl. [Title page and tables of contents and illustrations for volume 1, appended to this number. viii pp.]

2 V. 2. Botany of western Texas, a manual of phanerogams and pteridophytes of western Texas; by John M. Coulter. 1891-94.

No. 1. Manual of phanerogams and pteridophytes of western Texas; Polypetals, by John M. Coulter. 1891. v+152+iv pp. 1 pl.

No. 2. Same, Gamopetalse; by John M. Coulter. 1892. x+153-345 pp. 2 pl.

No. 3. Same, Apetalse, Monocotyledonse, Pteridophyta, by John M. Coulter. 1894. v+347-588 pp. (1 sheet following p. 430.) [Title page and table of contents for volume, issued with this part. v pp.]

[Volume 2 was reprinted by the Smithsonian Institution, 1902, under title "Botany of western Towns"]

of western Texas."]

3 V. 3. Reports on collections, revisions of groups, and miscellaneous papers. 1892–1896.

Contents: No. 1. Monograph of grasses of U. S. and British America; by George Vasey. 1892.

No. 2. Preliminary revision of North American species of cactus, anhalonium, and lophophora; by John M. Coulter. 1894. iii+91-132+ii pp.

No. 3. Flora of sand hills of Nebraska; by P. A. Rydberg. 1895. v+133-208 pp. 2 pl.

No. 4. Report on collection of plants made by J. H. Sandberg and assistants in northern Idaho in 1892; by John M. Holzinger. 1895. v+205-287+v pp. 2 pl. No. 5. Report on Mexican umbelliferæ, mostly from State of Oaxaca, recently collected by C. G. Pringle and E. W. Nelson, by John M. Coulter and J. N. Rose; Descriptions on plants, mostly new, from Mexico and U.S., by J. N. Rose. 1895.

v+289-323+ii pp. 12 pl. No. 6. Botany of Yakutat Bay, Alaska, by Frederick Vernon Coville; with field report, by Frederick Funston. 1895. iii+325-353+ii pp.

No. 7. Preliminary revision of North American species of echinocactus, cereus,

and opuntia; by John M. Coulter. 1896. iii+855-462+iv pp. No. 8. Flora of Black Hills of South Dakota; by P. A. Rydberg. 1896. v+463-

536 + iv pp. 4 pl.

- No. 9. Flora of southwestern Kansas, report on collection of plants made by C. H. Thompson in 1893, by A. S. Hitchcock; Crepis occidentalis, and its allies, by Frederick V. Coville; Plants from Big Horn Mountains of Wyoming, by J. N. Rose; Leibergia, a new genus of umbelliferæ from Columbia River region, by John M. Coulter and J. N. Rose; Roseanthus, a new genus of cucurbitaceæ from Acapulco, Mexico, by Alfred Cogniaux. 1896. v+587-612 pp. 8 pl. [Title page and table of contents for reduced with this page.] and table of contents for volume issued with this part. vii pp.]
- V. 4. Botany of Death Valley expedition; Report on botany of expedition sent out in 1891 by U.S. Department of Agriculture to make biological survey of region of Death Valley, California, by Frederick Vernon Coville. 1893. viii+363 pp. 22 pl. 1 map.

V. 5. Systematic, economic, and ecological investigations. 1897-1901.

Contents: No. 1. General report on botanical survey of Cœur d'Alene Mountains in Idaho during summer of 1895; by John B. Leiberg. 1897. v+85 pp. 1 pl. No. 2. Plants used by Klamath Indians of Oregon; by Frederick V. Coville. 1897. v+87-108+ii pp.

No. 3. Studies of Mexican and Central American plants; by J. N. Rose. 1897.

vii+109-144+1 pp. 16 pl. No. 4. Studies of Mexican and Central American plants—No. 2; by J. N. Rose; Two new species of plants from northwestern U.S., by L. F. Henderson; Hesperigenia, a new genus of umbelliferæ from Mount Rainier, by J. M. Coulter and J. N. Rose; Three new species of tradescantia from U.S., by J. N. Rose; Treleasea, a new genus of commelenacese, by J. N. Rose; Notes on useful plants of Mexico, by J. N. Rose. 1899. viii+145-259+viii pp. 47 pl.

No. 5. Plant covering of Ocracoke Island, a study in the ecology of the North Carolina strand of vegetation; by Thomas H. Kearney, jr. 1900. iv+261-

819 pp. No. 6. Report on totanical survey of Dismal Swamp region; by Thomas H. Kearney. 1901. x+321-585+x pp. 12 pl. 2 maps. [Title page and table of contents for volume, issued with this part. x pp.]

#### Classification no.

## A6. BOTANY DIVISION—Continued

# A6.5: | Contributions from U. S. national herbarium—Continued

V. 6. Plant life of Alabama; distribution, modes of association, and adaptations of flora of Alabama, with systematic catalogue of plants growing in State; prepared in cooperation with Geological Survey of Alabama; by Charles Mohr. 1901. 921 pp. 13 pl.

V. 7. Systematic and geographic botany, and aboriginal uses of plants.

1900–1902.

Contents:
No. 1. Monograph of North American umbelliferæ; by John M. Coulter and J. N. Rose. 1900. 256+vii pp. 9 pl.

No. 2. Origin and distribution of Cocoa palm; by O. F. Cook. 1901. v+257-298 pp. No. 5. Plants used by Indians of Mendocino County, California; by V. K. Chesnut. 1902. vi+295-408+vii pp. pl. 10-21. [Title page and contents for volume, 1900-1902. pp. 1-8, 409-422.]

# A6.5a: | Contributions from U.S. national herbarium (separates)

[A few of the more important papers contained in the various numbers of this series are issued separately in pamphlet form. References to all the papers contained in this series will be found under the proper headings in the index to this work.]

## A6.6: Inventories

1

5

6

No. 1. Foreign seeds and plants imported by section of seed and plant introduction, numbers 1-1000. n. d. 81 pp.

No. 2. Foreign seeds and plants imported by section of seed and plant introduction, numbers 1001–1900. [July 5, 1899.] 94 pp.

No. 3. Seeds of saccharine sorghums distributed by section of seed and plant introduction. [Ap. 10, 1899.] 14 pp.

4 No. 4. Cereals and forage plants collected in Russia by M. A. Carleton for section of seed and plant introduction. [Ap. 15, 1899.] 9 pp.

No. 5. Foreign seeds and plants imported by Department of Agriculture and for distribution through the section of seed and plant introduction. Numbers 1901–2700. Nov. 3, 1899. 62 pp.

No. 6. Foreign seeds and plants collected in Austria, Italy, and Egypt by Barbour Lathrop and David G. Fairchild for section of seed and plant introduction. [Jan. 30, 1900.] 15 pp.

No. 7. Foreign seeds and plants imported by Department of Agriculture; numbers 2701-3400. Aug. 18, 1900. 86 pp.

No. 8. Seeds and plants imported for distribution in cooperation with agricultural experiment stations; numbers 3401-4350. Jan. 1, 1901. 106 pp.

## A7. CHEMISTRY BUREAU

[Formerly Chemistry Division; changed to Bureau July 1, 1901. For historical sketch of Division, see Yearbook 1897 (A1.10:897), p. 76.]

### A7.1: | Annual reports

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1862 (Wetherill). (In A1.1:862, p. 508.)
1863 no report printed.
1864 (Erní). (In A1.1:864, p. 514.)
               (In A1.1:865, p. 46.)
1865 (Erni).
                  (In A1.1:866, p. 45.)
1866
     (Antisell).
                  (In A1.1:867, p. 31.)
1867 (Antisell).
     (Antisell).
1868
                  (In Al.1:868, p. 59.)
1869
                  (In Al.1:869, p. 65.)
     (Antisell).
1870
                  (In A1.1:870, p. 91.)
     (Antisell).
1871
     (Brown).
                 (In A1.1:871, p. 89.)
1872 (Brown).
                  In A1.1:872, p. 138.)
1873 (McMurtrie).
                     (In A1.1: 873, p. 170.)
1874 (McMurtrie).
                     (In A1.1:874, p. 147.)
1875 (McMurtrie).
                     (In A1.1:875, p. 141.)
1876 (McMurtrie).
                     (In Al.1:876, p. 46.)
                     (In A1.1:877, p. 65.)
1877 (McMurtrie).
1878 (Collier).
                 (In Å1.1:878, p. 95.)
1879 (Collier).
                 (In Al.1:879, p. 35.)
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Classification no.

8

## A7. CHEMISTRY BUREAU—Continued

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A7.1:
         Annual reports—Continued
         1880 (Collier). (In Al.1:880, p. 37.)
         1881 and 1882 (Collier). (In A1.1:881-2, p. 379.)
         1883 (Richardson). (In A1.1:883, p. 197.)
         1884 (Wiley).
                         (In A1.1:884, p. 19.)
         1885 (Wiley).
                         (In A1.1:885, p. 109.)
                         (In A1.1:886, p. 277.)
         1886 (Wiley).
                         (1n A1.1:887, p. 181.)
         1887 (Wiley).
                         (In A1.1:888, p. 221.)
         1888 (Wiley).
         1889 (Wiley), [1]+135-190 pp. (Also in A1.1:889, p. 135.)
  889
         1890 (Wiley), iii +133-192 pp. (Also in A1.1:890, p. 133.)
  890
  891
         1891 (Wiley), [3]+143-190 pp. (Also in Al.1:891, p. 143.)
         1892 (Wiley), iii+123-152 pp. (Also in A1.1:892, p. 123.)
  892
         1893 (Wiley), iv+169-198 pp. (Also in A1.1:893, p. 169.)
  893
         1894 (Wiley). (In A1.1:894, p. 151.)
         1895 (Wiley).
                         (In A1.1:895, p. 145.)
         1896 (Wiley), iii+9-14 pp. (Also in A1.1:896, p. 9.)
  896
         1897 (Wiley), ii+5 pp. (Also in A1.1:897, p. 1.)
  897
         1898 (Wiley), iii+7-15 pp. (Also in A1.1:898, p. 7.)
  898
  899
         1899 (Wiley), iii + 25-42 pp. (Also in A1.1:899, p. 25.)
         1900 (Wiley), ii+17-26 pp. (Also in A1.1:900, p, 17.)
1901 (Wiley), ii+95-111 pp. (Also in A1.1:901, p. 95.)
  900
  901
         1902 (Wiley), ii+137-154 pp. (Also in A1.1:902, p. 137.)
  902
A7.2:
         General publications
            [Publications which originated in this Bureau, but which were published in a num-
               bered series of the Secretary's office, or some other division of the Department.
               are entered only where such numbering places them, with references under the
               proper headings in the index to this work. Publications of this Bureau, issued
               only as Congressional documents, are noted in chronological order in the Appen-
               dix to this work ]
         Beet sugar industry. See A1.2: B39.
         Oils and fats. Methods for analysis of edible oils and fats, not including
  Oi5
               dairy products; by L. M. Tolman. [1901.] n. t. p. 15 pp.
  P96 1
         Publications of Division of Chemistry. Dec. 20, 1899. n. t. p. 4 pp.
  P96 2
            Same. May 1, 1901. n. t. p. 4 pp.
 P963
                    Aug. 1, 1902. n. t. p. 6 pp.
            Same.
A7.3:
         Bulletins
    1
         No. 1. Investigation of composition of American wheat and corn; [by]
               Clifford Richardson. 1883. 69 pp. 1 folded table.
           [For errata to this Bulletin, see A7.3:4, p. 98.]
    2
         No. 2. Diffusion, its application to sugar cane and record of experiments
               with sorghum in 1883; [by] H. W. Wiley. 1884. 36 pp. 2 pl.
    3
         No. 3. Northern sugar industry; a record of its progress during season
               of 1883; [by] H. W. Wiley. 1884. 118+2 pp. 4 pl. 11 charts.
         No. 4. Investigation of composition of American wheat and corn, 2d
    4
               report; [by] Clifford Richardson. 1884. 98 pp.
           [Errata to Bulletin No. 1 on page 98.]
         No. 5. Sugar industry of United States, cane sugar, beet sugar, sorghum
    5
               sugar, maple sugar; by Harvey W. Wiley. 1885. 224 pp. 16 pl.
               1 map.
    в
         No. 6. Experiments with diffusion and carbonatation at Ottawa, Kansas,
               campaign of 1885; by Harvey W. Wiley. 1885. 20 pp.
    7
         No. 7. Methods of analysis of commercial fertilizers; proceedings [2d]
               annual convention] Association of Official Agricultural Chemists,
               Sept. 1, 2, 1885 [edited by Chas. W. Dabney, jr.]. 1885. 49 pp.
    8
         No. 8. Methods and machinery for application of diffusion to extraction
               of sugar from sugar cane and sorghum, and for use of lime and
               carbonic and sulphurous acids in purifying the diffusion juices; [by]
               Harvey W. Wiley. 1886. 85 pp. 22 pl.
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ardson. 1886. 82 pp.

No. 9. Third report on chemical composition and physical properties of

American cereals, wheat, oats, barley, and rye; by Clifford Rich-

Classifica-A7. CHEMISTRY BUREAU—Continued tion no. A7.3: **Bulletins—Continued** No. 10. Principles and methods of soil analysis; [by] . Edgar Richards. 10 1886. 66 pp. 11 No. 11. Experiments in manufacture of sugar at Magnolia Station, Lawrence, La., season of 1885-6. 2d report; by Guilford L. Spencer. 1886. 26 pp. 1 pl. No. 12. Methods of analysis of commercial fertilizers; proceedings 3d **√** 12 annual convention of Association of Official Agricultural Chemists, Aug. 26, 27, 1886. 1886. 59 pp. 131 No. 13. Foods and food adulterants; pt. 1. Dairy products. 1887. 128 + iv pp. 12 pl. Same, pt. 2. Spices and condiments; by Clifford Richardson. √ 13° 1887. [1]+129-259 pp. 16 pl. 13° Same, pt. 3. Fermented alcoholic beverages, malt liquors, wine, and cider; by C. A. Crampton. 1887. [1]+261-399 pp. 134 Same, pt. 4. Lard and lard adulterations; by H. W. Wiley. 1889. [1]+403-554 pp. 10 pl. 135 Same, pt. 5. Baking powders; by C. A. Crampton. 1889. [1]+557-627 pp. 136 Same, pt. 6. Sugar, molasses and sirup, confections, honey, and beeswax, made under direction of H. W. Wiley, with collaboration of H. A. Huston, H. H. Nicholson, W. B. Rising, M. A. Scovell, S. P. Sharples, W. C. Stubbs, Shippen Wallace, F. G. Weichmann, H. A. Weber, and K. P. McElroy. 1892. [1]+631-874+ix pp. 137 Same, pt. 7. Tea, coffee, and cocoa preparations; by Guilford L. Spencer with collaboration of Ervine E. Ewell. 1892. vii+875-1014+ vi pp. 9 pl. 13<sup>8</sup> Same, pt. 8. Canned vegetables; by K. P. McElroy with collaboration of W. D. Bigelow. 1893. vi+1015-1167+xii pp. Same, pt. 9. Cereals and cereal products made under direction of H. W. 139 Wiley, with collaboration of K. P. McElroy, W. H. Krug, T. C. Trescot, W.D. Bigelow, and others. 1898. vii+1169-1374 pp. 7 pl. 13 10 Same, pt. 10. Preserved meats; by W. D. Bigelow, with collaboration of Edward Mackay Chance, L. S. Munson, L. M. Tolman, and others. 1902. ix + 1375 - 1517 pp. 14 No. 14. Experiments at Fort Scott, Kansas, in manufacture of sugar from sorghum and sugar canes in 1886; by H. W. Wiley. 1887. 64 pp. 15 No. 15. Experiments in manufacture of sugar at Magnolia Station, Lawrence, Louisiana, season of 1886-87; 3d rp., by Guilford L. Spencer. 1887. 35 pp. No. 16. Methods of analysis of commercial fertilizers, feeding stuffs, and **V** 16 dairy products, adopted at 4th annual convention of Association of Official Agricultural Chemists, Aug. 16-18, 1887; edited by Clifford Richardson. 1887. 80 pp. 4 pl. No. 17. Experiments in manufacture of sugar from sorghum and sugar 17 canes at Fort Scott, Kansas, Rio Grande, N. J., and Lawrence, La. 1888. 118 pp. 6 pl. 18 No. 18. Sugar-producing plants; analyses made under direction of chemist; sorghum [at] Fort Scott, Kans., Rio Grande, N. J.; sugar cane [at Magnolia Station] Lawrence, La.; with study of data collected on sorghum and sugar cane. 1888. 132 pp. 19 No. 19. Methods of analysis of commercial fertilizers, cattle foods, dairy products, sugar, and fermented liquors, adopted at fifth annual convention Association of Official Agricultural Chemists, held Aug. 9, 10, 1888; edited by Clifford Richardson. 1888. 96 pp. 20 No. 20. Record of experiments in manufacture of sugar from sorghum at Rio Grande, N. J.; Kenner, La.; Conway Springs, Douglass, and Sterling, Ks., 1888; by H. W. Wiley. 1889. 162 pp. 21 No. 21. Experiments in manufacture of sugar by diffusion at Magnolia Station, Lawrence, La., season of 1888-89; by Guilford L. Spencer. 1889. 67 pp. **J** 22 No. 22. Record of experiments at Des Lignes sugar experiment station, Baldwin, La., season of 1888; by C. A. Crampton. 1889. 36 pp.

### Classification no.

## A7. CHEMISTRY BUREAU—Continued

lon no	. A. Chimistal Deckare—continued
<b>17.</b> 3	Bulletins—Continued
٧ 2	No. 23. Experiments at sugar experiment station on Calumet Plantation Pattersonville, La., [1888]; by Hubert Edson. 1889. 42 pp.
٧ 2	No. 24. Proceedings 6th annual convention Association of Official Agricultural Chemists, Sept. 10-12, 1889, methods of analysis of commercia fertilizers, cattle foods, dairy products, and fermented liquors edited by Harvey W. Wiley. 1890. 235 pp.
2	by Alex. J. Wedderburn. 1890. 61 pp.
2	1889, at Cedar Falls, Iowa; Rio Grande, N. J.; Morrisville, Va. Kenner, La.; College Station, Md.; and Conway Springs, Attica Medicine Lodge, Ness City, Liberal, Arkalon, Meade, Minneola, and Sterling, Kans.; by H. W. Wiley. 1890. 112 pp. 1 folded table
2	sugar; by H. W. Wiley. 1890. 262 pp. 12 pl.
2	No. 28. Proceedings of 7th annual convention of Association of Official Agricultural Chemists, Aug. 28–30, 1890; methods of analysis of commercial fertilizers, foods, and feeding stuffs, dairy products fermented liquors, and sugars; edited by Harvey W. Wiley. 1890 238 pp.
2	
3	
3	No. 31. Proceedings of 8th annual convention of Association of Official Agricultural Chemists, Aug. 13–15, 1891; methods of analysis of commercial fertilizers, foods and feeding stuffs, dairy products fermented liquors, and sugars; edited by Harvey W. Wiley. 1891
3	No. 32. Special report on extent and character of food adulterations, in cluding State and other laws relating to foods and beverages; by Alex. J. Wedderburn. 1892. 174 pp.
3	
3	Wiley, with collaboration of G. L. Spencer, A. A. Denton, and Wibray J. Thompson. 1892. 132 pp.
3	Agricultural Chemists, Aug. 25-27, 1892; edited by Harvey W Wiley. 1892. vi+243+vii-xvii.
3	with collaboration of Walter Maxwell. 1893. 74 pp.
3	No. 37. Record of experiments with sorghum in 1892; by Harvey W Wiley, with collaboration of A. A. Denton, Glen O'Brien, C. I Hinman, Wibray J. Thompson, J. L. Fuelling, and Oma Cari 1893. 100 pp.
r 3	No. 38. Proceedings of 10th annual convention of Association of Official Agricultural Chemists, Chicago, Ill., Aug. 24-26, 1893; edited by Harvey W. Wiley. 1893. vi+218+vii-xiv pp.
3	
4	
4	No. 41. Extent and character of food and drug adulteration; by Alex J. Wedderburn. 1894. 64 pp.
4	No. 42. Compilation of pharmacy and drug laws of the several state and territories; by Alex. J. Wedderburn. 1894. 152 pp.
4	

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tion	<b>DO.</b>

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63

others.

## A7. CHEMISTRY BUREAU—Continued

A7.3:   Bulletins—Conti	nued
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No. 44. Sweet cassava; its culture, properties, and uses; by Harvey W. 44 Wiley. 1894. 16 pp. 2 pl.

45 No. 45. Analyses of cereals collected at World's Columbian Exposition, and comparisons with other data; by Harvey W. Wiley. 1895. 57 pp.

48¹ No. 46. Methods of analysis adopted by Association of Official Agricultural Chemists, Sept. 5-7, 1895; edited by Harvey W. Wiley, with collaboration of L. L. Van Slyke and W. D. Bigelow. 1895. 84 pp. See also A7.4:4.

No. 46, rev. ed. Methods of analysis adopted by Association of Official 462 Agricultural Chemists, Nov. 11, 12, 14, 1898; edited by Harvey W. Wiley. 1899. 86 pp.

47 No. 47. Proceedings of 12th annual convention of Association of Official Agricultural Chemists, Sept. 5-7, 1895; edited by Harvey W. Wiley. 1895. 172 pp.

48 No. 48. Zinc in evaporated apples; by Harvey W. Wiley. 1896. 38 pp. 49 ¹ No. 49. Proceedings 13th annual convention Association of Official Agricultural Chemists, Nov. 6, 7, 9, 1896; edited by H. W. Wiley. 1897. 127 pp.

49 2 Same, [another print; letter of transmittal and list of illustrations omitted]. 127 pp. See also A7.4:2 and A7.4:4.

**50** No. 50. Composition of maize (Indian corn), including grain, meal, stalks, pith, fodder, and cobs; compiled by H. W. Wiley. 1898. 31 pp. See also for French abstract of this Bull., A7.4:6.

51 No. 51. Proceedings of 14th annual convention of Association of Official Agricultural Chemists, Oct. 28–28, 1897; edited by Harvey W. Wiley. 1898. 169 pp. See also A7.4:4.

No. 52. Experiments with sugar beets in 1897; by Harvey W. Wiley. 52<sup>1</sup> 1898. 165 pp. 2 mape. 52°

Same, revised. 1899. 165 pp. 2 maps. No. 53. Chemical composition of carcasees of pigs; by Harvey W. Wiley, with collaboration of E. E. Ewell, W. H. Krug, T. C. Trescot, and 1898. 80 pp.

No. 54. Investigation of analytical methods for distinguishing between nitrogen of proteids and that of simpler amids or amido-acids, by J. W. Mallet; with chapter on Separation of flesh bases from proteid matters by means of bromin, by H. W. Wiley. 1898. 30 pp.

No. 55. Fertilizing value of street sweepings; by Ervin E. Ewell. 1898. 19 pp.

No. 56. Proceedings of 15th annual convention of Association of Official Agricultural Chemists, Washington, D. C., Nov. 11, 12, 14, 1898; edited by Harvey W. Wiley. 1899. 140 pp.

**57** No. 57. Proceedings of 16th annual convention of Association of Official Agricultural Chemists, San Francisco, July 5-7, 1899; edited by Harvey W. Wiley. 1899. 130 pp.

No. 58. Manufacture of starch from potatoes and cassava; by Harvey W. 58 Wiley. 1900. 48 pp. 8 pl.

No. 59. Composition of American wines; by W. D. Bigelow. 1900. 76 pp. **59 60** No. 60. Sunflower plant, its cultivation, composition and uses; by Harvey W. Wiley. 1901. 31 pp. 1 pl.

61 No. 61. Pure-food laws of European countries affecting American exports; by W. D. Bigelow. 1901. 39 pp.

No. 62. Proceedings of 17th annual convention Association of Official **62** Agricultural Chemists, Washington, Nov. 16, 17, 19, 1900; edited by H. W. Wiley. 1901. 163 pp. 2 pl.

No. 63. Exhibit of Bureau at Pan-American Exposition, Buffalo, N. Y., 1901; by E. E. Ewell, W. D. Bigelow, and Logan Waller Page. 1901. 29 pp. 4 pl.

64 No. 64. Influence of environment upon composition of sugar beet; by Harvey W. Wiley. 1901. 32 pp.

#### Tables CHEMISTRY BUREAU—Continued Classifica-A7. tion no. **Bulletins—Continued** A7.3: No. 65. Provisional methods for analysis of foods adopted by Association 65 of Official Agricultural Chemists, Nov. 14-16, 1901; edited by H. W. Wiley, with collaboration of W. D. Bigelow. 1902. 169 pp. No. 66. Fruits and fruit products, chemical and microscopical examina-66 tion; [Pt. 1], by L. S. Munson [and] L. M. Tolman; [Pt. 2, by] Burton J. Howard. 1902. 114 pp. 12 pl. No. 67. Proceedings of 18th annual convention of Association of Official 67 Agricultural Chemists, held at Washington, D. C., Nov. 14–16, 1901; edited by Harvey W. Wiley. 1902. 184 pp. 1 por. No. 68. Chemical composition of insecticides and fungicides, with an **68** account of methods of analysis employed; by J. K. Haywood, in cooperation with Division of Entomology. 1902. 62 pp. No. 69. Pt. 1. Foods and food control, [no.] 1; by W. D. Bigelow. 1902. **69** <sup>1</sup> vi + 93 pp.Same, Pt. 2, [no.] 2. 69<sup>2</sup> 1902. vi+95-187 pp.Same, Pt. 3, [no.] 3. 69 s 1902. vi+189-272 pp.Same, Pt. 4, [no.] 4. vi + 273 - 372 pp.694 1902. Same, Pt. 5, [no.] 5. 1902. vi+373-461 pp. 69 <sup>5</sup> No. 70. Manufacture of table sirups from sugar cane; by H. W. Wiley. 70 1902. 32 pp. 10 pl. A7.3 a: Builetins (separates) [A few of the papers contained in the Bulletins were issued separately in pamphlet form. References to all the papers will be found under their proper headings in the index to this work.] A7.4: Circulars No. 1. Manufacture of sorghum sirup; by G. L. Spencer. July 15, 1894. 1 n. t. p. 3 pp. No. 2. Changes in and additions to methods of analysis adopted at 13th 2 annual meeting of Association of Official Agricultural Chemists. Dec. 12, 1896. n. t. p. 6 pp. No. 3. Needed reforms in fertilizer inspection; by H. J. Wheeler, H. P. 31 Armsby, C. D. Woods, H. W. Wiley. July 8, 1897. n. t. p. 3 pp. 3 2 Same, revised. n. d. n. t. p. 4 pp. 38 Same, 2d rev. ed. Mar. 20, 1902. n. t. p. 4 pp. No. 4 (to accompany bulletin 46). Changes in and additions to methods v 4 Official Agricultural Chemists. Dec. 11, 1897. n. t. p. 10 pp. 5 18, 1899. n. t. p. 7 pp. 6

of analysis adopted at 13th and 14th annual meetings Association of No. 5. Chemical examination of canned meats; by H. W. Wiley. Jan.

No. 6. Composition chimique du mais et de ses produits; par M. H. W.

Wiley. June 22, 1900. (French abstract of Chem. Bull. 50, Composition of maize; by H. W. Wiley.) July 21, 1900. 13 pp.

71 No. 7. Outline of work on foods and feeding stuffs for 1901; by William H. Krug. Apr. 29, 1901. n. t. p. 3 pp. 72

Same, revised ed. Apr. 18, 1902. (Title changed to "Amended methods adopted at 18th annual convention of Association of Official Agricultural Chemists.") n. t. p. 3 pp.

No. 8. Official method for analysis of tanning materials. Nov. 19, 1901. 81 n. t. p. 2 pp.

82 Same, Dec. 18, 1902. n. t. p. 2 pp.

No. 9. Plan for cooperating in study of available plant food; by C. C. 8 Moore. Jan. 3, 1902. n. t. p. 8 pp.

No. 10. Methods for analysis of insecticides and fungicides; by J. K. Hay-10 wood. Mar. 7, 1902. n. t. p. 8 pp.

### As. Entomological commission

[Formerly under Interior Department, see I 26.]

#### Annual reports

1 :

1st annual report on Rocky Mountain locust. Issued as a publication of the Geological and Geographical Survey of the Territories (Hayden). See 126.1:1.

# Classification no. A8. ENTOMOLOGICAL COMMISSION—Continued

# AS.1: | Annual reports—Continued

2d report on Rocky Mountain locust and Western cricket. Issued as a publication of the Interior Department, the report being made direct to the Secretary.

See 126.1:2.

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3d report of U. S. Entomological Commission relating to Rocky Mountain locust, Western cricket, Army worm, canker worms, and Hessian fly, with descriptions of larvæ of injurious forest insects, studies of embryological development of locust and of other insects, and on systematic position of orthoptera in relation to other orders of insects.

1883. xiv+347+12+92 pp. 63 pl. 4 maps.

Same, 47th Cong., 2d sess., H. mis. doc. 44; serial no. 2154.

4th report of U.S. Entomological Commission, being revised edition of Bulletin no. 3 and final report on cotton worm and boll worm; by Charles V. Riley. 1885. xxxviii+399+147 pp. 64 pl. 2 maps. Same, 48th Cong., 2d sess., H. mis. doc. 39; serial no. 2325.

5th report of U.S. Entomological Commission, being revised and enlarged edition of Bulletin no. 7 on insects injurious to forest and shade trees; by Alpheus S. Packard. 1890. viii+957 pp. 40 pl.

Same, 51st Cong., 1st sess., H. mis. doc. 269; serial no. 2800. [Discontinued.]

## A8.2: | General publications

None issued.

### A8.3: | Bulletins

[Nos. 1 and 2 made under direction of U. S. Geological and Geographical Survey of the Territories (Hayden); Nos. 3-7 under direction of Interior Department. None issued under Agriculture Department].

See 126:3.

#### AS.4: | Circulars

879

881

[None issued under Agriculture Department. Twelve circulars issued under Interior Department. Sec 126:4].

### A9. ENTOMOLOGY DIVISION

[For historical sketch of Division, see Yearbook 1897 (A1.10:897), p. 84.]

### A9.1: | Annual reports

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REPORT OF ENTOMOLOGIST
1863 (Glover).
                (In A1.1:863, p. 561.)
1864 (Glover).
                (In A1.1:864, p. 540.)
1865 (Glover).
                (In A1.1:865, p. 33.)
1866 (Glover).
                (In A1.1:866, p. 27.)
                (In A1.1:867, p. 58.)
1867 (Glover).
1868 (Glover).
                Title: Foods and habits of beetles. (In A1.1:868, p. 78.)
1869 (Glover). (In A1.1:869, p. 60.)
REPORT OF ENTOMOLOGIST AND CURATOR OF MUSEUM
1870 (Glover). (In A1.1:870, p. 65.)
                (In A1.1:871, p. 69.)
1871 (Glover).
1872 (Glover).
                (In A1.1:872, p. 112.)
1873 [Glover].
                (In A1.1:873, p. 152.)
1874 (Glover).
                (In A1.1:874, p. 122.)
REPORT OF ENTOMOLOGIST
1875 (Glover). (In A1.1:875, p. 114.)
REPORT OF ENTOMOLOGIST AND CURATOR OF MUSEUM
1876 (Glover).
                (In A1.1:876, p. 17.)
1877 (Glover).
                (In A1.1:877, p. 89.)
1878 (none issued).
REPORT OF ENTOMOLOGIST
1879 (Riley), from June, 1878, to Mar. 1, 1879. 52+[1] pp. 7 pl. (Also
      in A1.1:878, p. 207.)
1880 (Comstock), submitted June 30, 1880. (In A1.1:879, p. 185.)
1881 (Comstock), submitted June 15, 1881. iv+235-373+iv pp. 24 pl.
      (Also in A1.1:880, p. 235.)
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Tables	
Classifica- tion no.	A9. ENTOMOLOGY DIVISION—Continued
	Annual reports—Continued
882	1882 (Riley), submitted June 30, 1882. viii+167 pp. 20 pl. (Also in A1.1:881-2, p. 61.) [Pages 1-154 bear also the paging of the Secretary's report "61-214."]
883	1883 (Riley), submitted July 31, 1883. v+99-180+5+[2] pp. 13 pl. (Also in A1.1:883, p. 99.)
884	1884 (Riley), submitted Nov. 3, 1884. $vii+[1]+134+2+ix$ pp. 10 pl. (Also in A1.1:884, p. 285.) [Pages 1-134 bear also the paging of
885	the Secretary's report "285-418."] 1885 (Riley), submitted Dec. 24, 1885. vii+[1]+137+vii+2 pp. 2 l. ix pl. 1 map. (Also in A1.1:885, p. 207.) [Pages 1-137 bear also
886	the paging of the Secretary's report "207-343." 1886 (Riley), [submitted] Dec. 24, 1886. v+459-592+ix pp. 11 pl. (Also in A1.1:886, p. 459.)
887	1887 (Riley), submitted Jan. 30, 1888. vi+48-179+vi pp. 8 pl. (Also in A1.1:887, p. 48.)
888	1888 (Riley), submitted Jan. 31, 1889. iv+53-144 pp. 12 pl. (Also in A1.1:888, p. 53.)
889	1889 (Riley), submitted Dec. 31, 1889. iv+331-361+iii pp. 6 pl. (Also in A1.1:889, p. 331.)
890	1890 (Riley), for calendar year. [1]+237-264 pp. 7 pl. (Also in A1.1:890, p. 237.)
891	1891 (Riley), for calendar year. iii+231-266+ii pp. (Also in A1.1:891, p. 231.)
892	1892 (Riley), calendar year. iii+153-180+ii pp. 12 pl. (Also in A1.1:892, p. 153.)
893	1893 (Riley), calendar year. iii+199-226+ii pp. 4 pl. (Also in A1.1:893, p. 199.)
	1894 (Howard), from June 30, 1893, to June 30, 1894. (In A1.1:894, p. 157.) 1895 (Howard), fiscal year. (In A1.1:895, p. 153.)
896	1896 (Howard), fiscal year. $iii + 89-93$ pp. (Also in A1.1:896, p. 89.)
897 898	1897 (Howard), fiscal year. ii $+111-116$ pp. (Also in A1.1:897, p. 111.) 1898 (Howard), fiscal year. iii $+17-25$ pp. (Also in A1.1:898, p. 17.)
899	1899 (Howard), fiscal year. iii+43-52 pp. (Also in A1.1:899, p. 43.)
900	1900 (Howard), fiscal year. $iii+27-34$ pp. (Also in A1.1:900, p. 27.)
901 902	1901 (Howard), fiscal year. ii+141-150 pp. (Also in A1.1:901, p. 141.) 1902 (Marlatt), fiscal year. iii+189-207 pp. (Also in A1.1:902, p. 189.)
A9.2:	General publications
	[Publications which originated in this Division, but which were published in a numbered series of the Secretary's Office, or some other division of the Department are entered only where such numbering places them, with references under the proper headings in the Index to this work. Publications of the Division, issued only as Congressional documents, are noted in chronological order in the Appendix to this work.]
B47 <sup>1-8</sup>	Bibliography of more important contributions to American economic entomology; prepared by Samuel Henshaw. Pts. 1-3, more important writings of Benjamin Dann Walsh and Charles Valentine Riley. 1890. [1]+454 pp.
	Pt. 1. More important writings of Benjamin Dann Walsh. 1889. 50 pp. Pt. 2. More important joint writings of B. D. Walsh and C. V. Riley. 1889. pp. 51-96. Pt. 3. More important writings of Charles Valentine Riley. 1889. pp. 97-371. Index to Parts 1-3. 1890. pp. [1] +373-454. Same, 51st Cong., 1st sess., H. mis. doc. 133; serial no. 2768.
B474	Same. Pt. 4. More important writings of Government and State entomologists, and of other contributors to literature of American Economic Entomology. A-K. 1895. 167 pp.
B47 <sup>6</sup> B47 <sup>6</sup>	Same. Pt. 5. L-Z. 1896. 179 pp. Same. Pt. 6. More important writings published between June 30, 1888, and Dec. 30, 1896; prepared by Nathan Banks. 1898. 273 pp.
B47 <sup>7</sup>	Same. Pt. 7. More important writings published between Dec. 31, 1896, and Jan. 1, 1900; by Nathan Banks. 1901. 113 pp.
C82	Cotton insects. Report upon cotton insects; by J. Henry Comstock. 1879. v+511 pp. 3 pl.

#### Classifica-ENTOMOLOGY DIVISION—Continued tion no. General publications—Continued A9.2: N42 New Orleans Exposition. Catalogue of exhibit of economic entomology at New Orleans World's Industrial and Cotton Centennial Exposition, 1884–5. 1888. 95 pp. Report on insects affecting the orange and other plants of citrus **Or** 1 family, with practical suggestions for their control or extermination; by H. G. Hubbard. 1885. 227 pp. 14 pl. Same, 48th Cong., 2d sess., H. mis. doc. 40; serial no. 2326. P41 May, [Periodical cicada, or seventeen-year locust; by C. V. Riley.] 1894. n. t. p. -{3] pp. 4° A9.3: **Bulletins** (old series) √ 1¹ No. 1. Reports of experiments, chiefly with kerosene, upon insects injurously affecting orange tree and cotton plant. 1883. 62 pp. Same, 2d edition. 1883. 62 pp. 12 21 No. 2. Reports and observations on Rocky Mountain locust and chinch bug, with extracts from correspondence of the Division on miscellaneous **36** pp. insects. 1883. 22 Same, 2d edition. 1883. 36 pp. No. 3. Reports of observations and experiments in practical work of the Divi-3 sion, made under direction of the Entomologist. 1883. 75 pp. 3 pl. 4 No. 4. Reports of observations and experiments in practical work of the Division, made under direction of the Entomologist, with extracts from correspondence on miscellaneous insects. 1884. 102 pp. 5 No. 5. Descriptions of North American chalcididæ, from collections of Department of Agriculture and C. V. Riley, with biological notes. [1st paper], with list of described North American species of this family; by L. O. Howard. 1885. 47 pp. No. 6. Imported elm leaf beetle; its habits and natural history, and means of counteracting its injuries. 1885. 20 pp. 1 pl. Same, 2d ed. 1891. 21 pp. 1 pl. 6 <sup>2</sup> 7 No. 7. Pediculi and mallophaga affecting man and lower animals; by Herbert Osborn. 1891. 56 pp. 81 No. 8. Periodical cicada; an account of Cicada septemdecim and its tredecim race, with chronology of broods known; by Charles V. Riley.\* 82 Same, 2d edition. 1885. 46 pp. **4 91** No. 9. Mulberry silk-worm; being a manual of instructions in silk culture; by C. V. Riley. 6th rev. ed. 1886. vii + 65 pp. 2 pl. **↓ 9²** Same, 7th rev. ed. 1888. vii+65 pp. 2 pl. [For editions 1 to 5, see **A1.6**:11.] 10 No. 10. Our shade trees and their insect defoliators, being a consideration of four most injurious species which affect trees of the Capital, with means of destroying them; by C. V. Riley. 1887. 69 pp. 11 No. 11. Reports of experiments with various insecticide substances, chiefly upon insects affecting garden crops. 1886. 34 pp. 12 No. 12. Miscellaneous notes on work of Division of Entomology for season of 1885. 1886. 46 pp. 1 pl. No. 13. Reports of observations and experiments in practical work of the 13 Division, made under direction of the Entomologist. 1887. 78 pp. 14 No. 14. Reports of observations and experiments in practical work of the Division. 1887. [Additional to no. 13.] 62 pp. 1 pl. 15 No. 15. Icerya or fluted scale, otherwise known as cottony cushion-scale. 1887. 40 pp. No. 16. Entomological writings of Alpheus Spring Packard; by Samuel 16 Henshaw. 1887. 49 pp. 17 No. 17. Chinch bug; general summary of its history, habits, enemies, and of remedies and preventives to be used against it; by L. O. Howard. 1888. [1]+48 pp. 18 No. 18. Life and entomological work of Townend Glover; by Charles Richards Dodge. 1888. 68 pp. 2 pl. No. 19. Enumeration of published synopses, catalogues, and lists of North 19 American insects, with other information intended to assist the student of American entomology. 1888. 77 pp.

#### Tables Classifica-ENTOMOLOGY DIVISION—Continued tion no. A9.3: | **Bulletins** (old series)—Continued 20 No. 20. Root-knot disease of peach, orange, and other plants in Florida, due to work of anguillula; by J. C. Neal. 1889. 31 pp. 21 pl. 21 <sup>1</sup> No. 21. Report of trip to Australia to investigate natural enemies of fluted scale; by Albert Koebele. 1890. 32 pp. 212 Same, rev. ed. 1890. 32 pp. 22 No. 22. Reports of observations and experiments in practical work of the Division, made under direction of the Entomologist. 1890. 110 pp. 23 No. 23. Reports of observations and experiments in practical work of the Division, under direction of the Entomologist. 1891. 83 pp. 24 No. 24. Boll worm of cotton, report of progress in supplementary investigation of this insect; by F. W. Mally. 1891. 50 pp. 25 No. 25. Destructive locusts, a popular consideration of a few of the more injurious locusts (or "grasshoppers") of U.S., with best means of destroying them; by C. V. Riley. 1891. 62 pp. 12 pl. 1 map. **26** No. 26. Reports of observations and experiments in practical work of the Division, made under direction of the Entomologist. 1892. 95 pp. 27 No. 27. Reports on damage by destructive locusts during 1891. 1892. 64 pp. No. 28. More destructive locusts of America north of Mexico; by Lawrence **28** Bruner. 1893. 40 pp. No. 29. Boll worm of cotton; by F. W. Mally. 1893. **29** 73 pp. 2 pl. No. 30. Reports of observations and experiments in practical work of the **30** Division, made under direction of the Entomologist. 1893. 67 pp. 31 No. 31. Catalogue of exhibit of economic entomology at World's Columbian Exposition, Chicago, Ill., 1893. 1893. 121 pp. **32** No. 32. Reports of observations and experiments in practical work of the Division, made under direction of the Entomologist. 1894. 59 pp. No. 33. Legislation against injurious insects, compilation of laws and regu-1. 1. 18 . 10 2 lations in United States and British Columbia; by L. O. Howard. 1895. 46 pp. しってき A9.4: **Circulars** (first series) [Note.—This series is described as "a miscellaneous and indifferent series, hardly worthy to be entitled to the dignity of being considered publications." The whole number exceeded 40, nearly all being circular letters, and of which Nos. 1, 18, and 22 are the only ones known to exist.] 1 No. 1 c. [Relating to silk worm eggs.] n. d. (Circ.) 18 No. 18. [Establishment of branch of economic ornithology.] 1885. (Circ.) 22 No. 22. [Bee culture.] July 28, 1885. (Circ.) A9.5: Circulars, second series 1 No. 1. Condensed information concerning some of the more important insecticides. May, 1891. 7 pp. No. 2. Hop plant-louse, and the remedies to be used against it. June, 1891. 7 pp. 1 pl. 21 Same, [new ed. Aug. 1899.] 7 pp. 3 No. 3. Important enemy to fruit trees; San Jose scale, its appearance in Eastern U.S.; measures to be taken to prevent its spread and to destroy it; by L. O. Howard. April 4, 1893. n. t. p. 10 pp. No. 4. Army worm, circular relative to; by L. O. Howard. June 16, 4 1894. n. t. p. 5 pp. No. 5. Carpet beetle or "Buffalo moth"; by L. O. Howard. Sept. 8, 5 1894. n. t. p. 4 pp. 61 No. 6. Mexican cotton-boll weevil; by L. O. Howard. April 2, 1895.

Same, [Spanish ed.] 6 pp. [For revision, see A9.5:14.]

n. t. p. 5 pp.

No. 7. Pear-tree psylla; by C. L. Marlatt. May 1, 1895. n. t. p. 8 pp. 8 No. 8. Imported elin leaf-beetle; by C. L. Marlatt. May 23, 1895. n. t. p.

9 No. 9. Canker-worms; by D. W. Coquillett. May 24, 1895. n. t. p. 4 pp.

Classification no.

# A9. ENTOMOLOGY DIVISION—Continued

9.5:	Circulars, second series—Continued
10	No. 10. Harlequin cabbage bug, or Calico back; by L. O. Howard. May 24, 1895. n. t. p. 2 pp.
11	No. 11. Rose-chafer; by F. H. Chittenden. May 21, 1895. n. t. p. 4 pp.
121	No. 12. Hessian fly; by C. L. Marlatt. July 26, 1895. n. t. p. 4 pp.
12°	Same, rev. ed. Apr. 13, 1900. n. t. p. 4 pp.
131	No. 13. Mosquitoes and fleas; by L. O. Howard. Feb. 1, 1896. n. t. p. 4 pp.
132	Same, rev. ed. Nov. 15, 1897. n. t. p. 5 pp.
141	No. 14. (Revision of No. 6.) Mexican cotton-boll weevil; by L. O. How-
	ard. Feb. 12, 1896. n. t. p. 8 pp.
142	Same, [Spanish edition.] n. t. p. 8 pp.
	[For revision, see A9.5:18.]
7 .	·
15	No. 15. General work against insects which defoliate shade trees in cities
	and towns; by L. Ö. Howard. Mar. 6, 1896. n. t. p. 4 pp.
ľ	[In advance, from article "Shade-tree insect problem in Eastern U.S.," published in Yearbook for 1895.]
16	No. 16. Larger corn stalk-borer; by L. O. Howard. Aug. 13, 1896. n. t. p.
4.00	3 pp.
17	No. 17. Peach-tree borer; by C. L. Marlatt. Sept. 30, 1896. n. t. p. 4 pp.
181	No. 18. Mexican cotton-boll weevil. Revision of No. 14. Feb. 4, 1897. n. t. p. 8 pp.
182	Same. [Spanish edition.] n. t. p. 10 pp.
18*	Same. [German edition.] n. t. p. 11 pp.
191	No. 19. Clover mite; by C. L. Marlatt. Mar. 5, 1897. n. t. p. 4 pp.
19 ²	Same, 2d ed. July 19, 1897. n. t. p. 4 pp.
20	No. 20. Woolly aphis of apple; by C. L. Marlatt. Mar. 15, 1897. n. t. p. 6 pp.
21	No. 21. Strawberry weevil; by F. H. Chittenden. Mar. 18, 1897. n. t. p.
99	7 pp. No. 22. Periodical cicada in 1897; by E. A. Schwarz. May 1, 1897.
22	n. t. p. 4 pp.
23	No. 23. Buffalo tree-hopper; by C. L. Marlatt. May 10, 1897. n. t. p. 4 pp.
24	No. 24. Two-lined chestnut borer; by F. H. Chittenden. July 14, 1897.
	n. t. p. 8 pp.
25	No. 25. Ox warble; by C. L. Marlatt. July 19, 1897. n. t. p. 10 pp.
26	No. 26. Pear slug; by C. L. Marlatt. Aug. 28, 1897. n. t. p. 7 pp.
27	No. 27. Mexican cotton-boll weevil in 1897; by L. O. Howard. Dec. 31,
_,	1897. n. t. p. 7 pp.
28	No. 28. Box-elder plant-bug; by L. O. Howard. Jan. 8, 1898. n. t. p.
- 00	3 pp.
29	No. 29. Fruit-tree bark-beetle; by F. H. Chittenden. Mar. 25, 1898.
	n. t. p. 8 pp.
30	No. 30. Periodical cicada in 1898; by E. A. Schwarz. Apr. 1, 1898.
	n. t. p. 3 pp.
31	No. 31. Striped cucumber beetle; by F. H. Chittenden. Apr. 26, 1898.
20.1	n. t. p. 7 pp.
321	No. 32. Larger apple-tree borers; by F. H. Chittenden. July 1, 1898. n. t. p. 12 pp.
32 2	Same, revised edition. Aug. 30, 1902. n. t. p. 12 pp.
33	No. 33. Remedial work against Mexican cotton-boll weevil; by L. O.
00	Howard. July 1, 1898. n. t. p. 6 pp.
34	No. 34. House ants; by C. L. Marlatt. July 6, 1898. n. t. p. 4 pp.
35	No. 35. House flies; by L. O. Howard. July 11, 1898. n. t. p. 8 pp.
36	No. 36. True clothes moths; by C. L. Marlatt. July 18, 1898. n. t. p.
^-1	8 pp.
37 ¹	No. 37. Use of hydrocyanic acid gas for fumigating greenhouses and cold
	frames; by Albert F. Woods and P. H. Dorsett. Jan. 10, 1899.
<b>-</b>	n. t. p. 10 pp.
37 2	Same, corrected print. [Compare page 8.] Jan. 10, 1899. n. t. p.
	10 pp.

#### **Tables** Classifica-A9. ENTOMOLOGY DIVISION—Continued tion no. Circulars, second series—Continued A9.5: 38 No. 38. Squash-vine borer; by F. H. Chittenden. Apr. 22, 1899. n. t. p. 39 No. 39. Common squash bug; by F. H. Chittenden. Apr. 27, 1899. n. t. p. 5 pp. 40¹ No. 40. How to distinguish different mosquitoes of North America; by L. O. Howard [with synoptical table of mosquitoes; by D. W. Coquillett]. Feb. 20, 1900. n. t. p. 7 pp. 40° Same [1901], 2d print. n. t. p. 8 pp. 41 No. 41. Regulations of foreign governments regarding importation of American plants, trees, and fruits; by L. O. Howard. Aug. 24, 1900. n. t. p. 4 pp. 42¹ No. 42. How to control San Jose scale; by C. L. Marlatt. Oct. 22, 1900. n. t. p. 6 pp. 421 Same, revised. May 17, 1902. **43** No. 43. Destructive green pea louse; by F. H. Chittenden. May 23, 1901. n. t. p. 8 pp. 44 No. 44. Periodical cicada in 1902; by W. D. Hunter. Mar. 13, 1902. n. t. p. 4 pp. 45 No. 45. New nomenclature for broads of periodical cicada; by C. L. Marlatt. May 1, 1902. n. t. p. 8 pp. No. 46. Hydrocyanic-acid gas against household insects; by L. O. Howard. 46 May 22, 1902. n. t. p. 4 pp. 47 No. 47. The bedbug; by C. L. Marlatt. June 15, 1902. n. t. p. 8 pp. No. 48. House centipede; by C. L. Marlatt. June 10, 1902. n.t. p. 4 pp. 48 No. 49. Silver fish; by C. L. Marlatt. June 20, 1902. 4 pp. 49 No. 50. White ant; by C. L. Marlatt. June 30, 1902. n. t. p. 8 pp. **50** 51 No. 51. Cockroaches; by C. L. Marlatt. June 23, 1902. n. t. p. 15 pp. A9.6: Bulletins, new series 11 No. 1. Honeybee, a manual of instruction in apiculture; by Frank Benton. 1895. 118 pp. 12 pl. 12 Same, rev. ed. 1896. 118 pp. 12 pl. 1. Same, 3d ed. 1899. 118 pp. 12 pl. Same, 54th Cong., 1st sess., H. doc. 359; serial no. 3435. 2 No. 2. Proceedings of 7th annual meeting of Association of Economic Entomologists [Springfield, Mass., 1895]. 1895. 100 pp. 3 No. 3. San Jose scale, its occurrences in U.S., with full account of its life history and remedies to be used against it; by L. O. Howard and C. L. Marlatt. 1896. 80 pp. 41 No. 4. Principal household insects of U. S., by L. O. Howard and C. L. Marlatt; with chapter on insects affecting dry vegetable foods, by F. H. Chittenden. 1896. 130 pp. 42 Same, revised edition. 1896 [1899]. 131 pp. No. 5. Insects affecting domestic animals, an account of species of impor-5 tance in North America, with mention of related forms occurring on other animals; by Herbert Osborn. 1896. 302 pp. 5 pl. No. 6. Proceedings of 8th annual meeting Association of Economic Entomologists. 1896. 100 pp. No. 7. Some miscellaneous results of work of Division of Entomology 7 [1]. 1897. 87 pp. No. 8. Some little known insects affecting stored vegetable products: a 8 collection of articles detailing certain original observations made upon insects of this class; by F. H. Chittenden. 1897. 45 pp. No. 9. Proceedings 9th annual meeting of Association of Economic Ento-8 mologists. 1897. 87 pp.

No. 12. San Jose scale, 1896-97; by L. O. Howard. 1898. 31 pp.

10

11

12

1898. 99 pp.

No. 10. Some miscellaneous results of work of Division of Entomology [2].

No. 11. Gipsy moth in America, a summary account of introduction and

repress and exterminate it; by L. O. Howard. 1897. 39 pp.

spread of Porthetria dispar in Massachusetts and of efforts made to

Classifica-A9. ENTOMOLOGY DIVISION—Continued tion no. **A9.6**: Bulletins, new series—Continued 13 No. 13. Recent laws against injurious insects in North America, with laws relative to foul brood; compiled by L. O. Howard. 1898. 68 pp. No. 14. Periodical cicada, an account of Cicada septendecim, its natural 14 enemies and means of preventing its injury, with summary of distribution of different broods; by C. L. Marlatt. 1898. 148 pp. 1 leaf. 4 pl. No. 15. Chinch bug, its probable origin and diffusion, its habits and 15 development, natural checks and remedial and preventive measures, with mention of habits of an allied European species; by F. M. Webster. 1898. 82 pp. No. 16. Hessian fly in United States; by Herbert Osborn. 1898. 16 3 pl. 17 No. 17. Proceedings 10th annual meeting Association of Economic Entomologists. 1898. 104 pp. No. 18. Some miscellaneous results of work of Division of Entomology, 18 3. 1898. 101 pp. No. 19. Some insects injurious to garden and orchard crops; by F. H. 19 Chittenden. 1899. 99 pp. 20 No. 20. Proceedings 11th annual meeting Association of Economic Entomologists. 1899. 111 pp. 21 No. 21. Preliminary report on insect enemies of forests in northwest, an account of results gained from a reconnoissance trip made in spring and early summer of 1899; by A. D. Hopkins. 1899. 27 pp. No. 22. Some miscellaneous results of work of Division of Entomology, 22 4. 1900. 109 pp. 23 No. 23. Some insects injurious to garden crops; by F. H. Chittenden. 1900. 92 pp. No. 24. List of works on North American entomology; compiled by 24 Nathan Banks. 1900. 95 pp. No. 25. Notes on mosquitoes of U.S., giving some account of their struc-25 ture and biology, with remarks on remedies; by L. O. Howard. 1900. 70 pp. **26** No. 26. Proceedings 12th annual meeting Association of Economic Entomologists. 1900. 102 pp. 2 pl. No. 27. Some insects injurious to violet, rose, and other ornamental 27<sup>1</sup> plants; by F. H. Chittenden. 1901. 114 pp. 4 pl. 27° Same, revised ed. 1901. 114 pp. 4 pl. No. 28. Insect enemies of spruce in northeast, a popular account of results 28 of special investigations, with recommendations for preventing losses; by A. D. Hopkins. 1901. 80 pp. 16 pl. No. 29. Fall army worm and variegated cutworm; by F. H. Chittenden. **29** 1901. 64 pp. No. 30. Some miscellaneous results of work of Division of Entomology, 30 5. 1901. 98 pp. 2 pl. No. 31. Proceedings of 13th annual meeting of Association of Economic 31 Entomologists [1901]. 1902. 103 pp. 2 pl. No. 32. Insect enemies of pine in Black Hills Forest Reserve, an account 32 of results of special investigations, with recommendations for preventing losses; by A. D. Hopkins. 1902. 24 pp. 7 pl. **3**3 No. 33. Some insects injurious to vegetable crops; by F. H. Chittenden. 117 pp. 1902. No. 34. Principal insects liable to be distributed on nursery stock; by 34

6. 1902. 110 pp. 2 pl.

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Nathan Banks. 1902. 46 pp.

by C. B. Simpson, 1902. 29 pp. 5 pl.

Entomologists. 1902. 127 pp. 1 pl.

No. 35. Report on codling-moth investigations in northwest during 1901;

No. 36. An index to Bulletins Nos. 1-30 (new series 1896-1901) of Division

of Entomology; compiled by Nathan Banks. 1902. 64 pp.

No. 37. Proceedings of 14th annual meeting of Association of Economic

No. 38. Some miscellaneous results of work of Division of Entomology,

Classification no.

# A9. ENTOMOLOGY DIVISION—Continued

#### **A9.6**a: Bulletins, new series (separates)

[A few of the more important papers contained in the bulletins were issued separately. References to all the papers will be found under their proper headings in the Index to this work.]

#### A9.7: Insect life

[In indexing these volumes for this work the "notes" were all disregarded.]

V. 1. Periodical bulletin, July, 1888, to June, 1889. [Nos. 1-12.] 1

No. 1. July, 1-32 pp.

No. 2. Aug., 2+33-62 pp.

No. 3. Sept., [2]+63-92 pp.

No. 4. Oct., 2+93-122 pp.

No. 5. Nov., [2]+123-162 pp. No. 6. Dec., 2+163-200 pp.

No. 7. Jan., 2+201-230 pp. No. 8. Feb., ii + 231-260 pp.

No. 9. Mar., ii+261-295 pp.

No. 10. Apr., ii +297-326 pp.

No. 11. May, ii+327-357 pp.

No. 12. June, 2+359-388. [Title page, table of contents, and index for vol. 1 issued with this number. xxxii pp.]

V. 2. Periodical bulletin, July, 1889, to June, 1890. [12 numbers in 10.]

No. 1. July, 2+30 pp.

No. 2. Aug.,  $11 \div 31 - 60$  pp.

No. 3. Sept., ii + 61-90 pp.

No. 4. Oct., ii +91-123 pp.

No. 5. Nov., ii+125-162 pp.

No. 6. Dec., ii+163-197 pp.

Nos. 7 and 8. Jan. and Feb., ii + 199-262 pp.

No. 9. Mar., ii + 263 - 292 pp.

No. 10. Apr., ii + 293-333 pp.

Nos. 11 and 12. May and June, ii +335-390 pp.

[Title page, table of contents, and index issued with no. 1 of vol. 8.]

V. 3. Periodical bulletin, August, 1890, to August, 1891. [12 numbers in 8.]

No. 1. Aug., ii+41 pp. [Title page, table of contents, and index for vol. 2 issued with this number, viii+391-418 pp.]

No. 2. Sept., ii + 41-87 pp.

No. 3. Nov., ii +89-129 pp.

No. 4. Nov., ii +131-178 pp.

No. 5. Jan., ii—179–250 pp.

No. 6. Mar., ii + 251-304 pp.

Nos. 7 and 8. Apr., ii+305-357 pp.

Nos. 9 and 10. June, ii  $\pm 359 - 432$  pp.

Nos. 11 and 12. Aug., ii +433-519 pp. [Title page and table of contents for vol. 3 issued with this number, viii pp.]

V. 4. Periodical bulletin, October, 1891, to August, 1892. [12 numbers in 6.]

Nos. 1 and 2. Oct., iv+86 pp.

Nos. 3 and 4. Nov., iv+87-162 pp.

Nos. 5 and 6. Dec., iii+163-230 pp.

Nos. 7 and 8. April, ii+231-292 pp.

Nos. 9 and 10. June, ii+293-352 pp.\*

Nos.11 and 12. Aug., iii+353-441 pp. [Title page and table of contents for vol. 4 issued with this number, viii pp.]

V. 5. Periodical bulletin, September, 1892, to July, 1893. [Nos. 1-5.]

No. 1. Sept., iii+62 pp.

No. 2. Nov., iii + 63-146 pp.

No. 3. Jan., iii + 147 - 212 pp.

No. 4. Apr., iii + 213-288 pp.

No. 5. July, iii+289-402 pp. [Title page and table of contents for vol. 5 issued with this number, vii pp. ]

<sup>\*</sup>The unbound serial numbers of this issue could not be found. As bound in the volumes the lettered pages are omitted, and could not therefore be verified.

#### Classification no.

# A9. ENTOMOLOGY DIVISION—Continued

# A9.7: | Insect life—Continued

- 6 V. 6. Periodical bulletin, November, 1893, to August [September], 1894. [Nos. 1-5.]
  - No. 1. Nov., iii+58 pp.\*
  - No. 2. Dec., iii +59-206 pp.\*
  - No. 3. Feb., iii + 207 282 pp.\*
  - No. 4. May, iii + 283 346 pp.\*
  - No. 5. Sept., iii + 347-405 pp.\* [Title page and table of contents for volume 6 issued with this number, vii pp.]
- 7 V. 7. Periodical bulletin, September, 1894, to July, 1895. [Nos. 1-5.]
  - No. 1. Sept., iii +54 pp.
  - No. 2. Oct., iii+55-215 pp.\*
  - No. 3. Dec., iii + 217 280 pp.\*
  - No. 4. Mar., iii +281-360 pp.\*
  - No. 5. July, iii+361-448 pp.\* [Title page and table of contents for vol. 7 issued with this number, v pp.]
- 8 [V. 8] General index to the seven volumes of Insect Life, 1888–1895.
  1897. 145 pp.

[Discontinued. The class of matter formerly used in this series is continued in Bulletins, new series (A9.6:) and Technical series (A9.8:)]

# A9.7a: | Insect life (separates)

[A few of the more important articles were issued separately in pamphlet form. References to all the articles will be found under their proper headings in the index to this work.]

# A9.8: Technical series

2

- No. 1. Revision of Aphelininæ of North America, a subfamily of hymenopterous parasites of family Chalcididæ; by L. O. Howard. 1895. 44 pp.
  - No. 2. Grass and grain joint-worm flies and their allies, a consideration of some North American phytophagic Eurytominæ; by L. O. Howard. 1896. 24 pp.
- No. 3. Revision of Nematinæ of North America, a subfamily of leaf-feeding hymenoptera of family Tenthredinidæ; by C. L. Marlatt. 1896. 135 pp. 1 pl.
- 4 No. 4. Some Mexican and Japanese injurious insects liable to be introduced into United States. 1896. 56 pp.
- No. 5. Study in insect parasitism, consideration of parasites of white-marked tussock moth, with account of their habits, and interrelations, with descriptions of new species; by L. O. Howard. 1897. 57 pp.
- 6 No. 6. San Jose scale and its nearest allies; by T. D. A. Cockerell. 1897.
- 7 No. 7. Revision of Tachinidæ of America north of Mexico, a family of parasitic two-winged insects; by D. W. Coquillett. 1897. 154+149-156 pp.

[Corrected index issued Dec. 1897.]

- 8 No. 8. Contributions toward a monograph of the American Aleurodidæ, by A. L. Quaintance; Red spiders of U. S. (Tetranychus and Stigmæus), by Nathan Banks. 1900. 79 pp. 8 pl.
- 9 No. 9. Life history of two species of plant-lice inhabiting both witch-hazel and birch; by Theo. Pergande. 1901. 44 pp.

## A10. EXPERIMENT STATIONS OFFICE

[For historical sketch of Office, see Yearbook, 1897 (A1.10:897), p. 135.]

# A10.11: | Annual reports of Director (to Secretary of Agriculture)

- 1888 (Atwater). (In A1.1:888, p. 537.)
- 889 | 1889 (Atwater), [1]+485-544+iv pp. (Also in A1.1:889, p. 485.)
- 890 | 1890 (Atwater), [1] +489-555+iii pp. (Also in A1.1:890, p. 489.)

<sup>\*</sup>The unbound serial numbers of these issues could not be found. As bound in the volumes the lettered pages are omitted, and could not therefore be verified.

[Publications which originated in this Office, but which were published in a numbered series of the Secretary's Office or some other division of the Department, are entered only where such numbering places them, with references under the proper headings in the Index to this work. Publications of this Office issued only as Congressional documents are noted in chronological order in the Appendix to this work.]

Abbreviations used in Experiment Station Record. n. t. p. n. d. 16 pp. C18 Card index of agricultural literature. Terms of sale of card index of agricultural literature. n. d. n. t. p. [3] pp.

C43<sup>1</sup> [Chicago, Ill., World's Columbian Exposition, Collective College and Station exhibit.] n. t. p. May 12, 1892. [4] pp. 4°
C43<sup>2</sup> Same. Address by advisory board. Nov. 19, 1892. (Circ.)

C43 Same. Address by advisory board. Nov. 19, 1892. (Circ.)
Same. [Letter to accompany address.] Nov. 23, 1892. (Circ.)

Same. Extract from annual address of New Orleans convention. Nov., 1892. (Circ.)

F73 Food and nutrition of man. List of publications on food and nutrition of man. [May, 1898.] n. t. p. 4 pp.

Same, rev. [July, 1898.] n. t. p. 4 pp.

#### Classifica-A10. EXPERIMENT STATIONS OFFICE—Continued tion no.

#### General publications—Continued A10.2: |

F73 3 Food and nutrition of man. List of publications on food and nutrition of man, rev. [July, 1899.] n. t. p. 5 pp.

F73 4 [Mar. 1900.] n. t. p. 6 pp. Same, rev. F735 Dec. 1900.] n. t. p. 7 pp. Same, rev. F73 [Oct. 1901.] n. t. p. 8 pp. Same, rev. Same, rev. Nov. 5, 1902. n. t. p. 9 pp. F73 <sup>7</sup>

Index to "Experiment Station Work." [Announcement regarding.] In2 May 7, 1898. (Circ.)

Irrigation. List of publications of Office on Irrigation. n. t. p. n. d. 2pp. Ir7 1

Ir7 2 Same, rev. [1901.] n. t. p. 4 pp. Ir7 2 [1901.] n. t. p. 5 pp. Same, rev. Ir74

Oct. 15, 1902. n. t. p. 7 pp. Same, rev. Porto Rico. Message from President of U.S., transmitting report on inves-P83 tigations of agricultural resources and capabilities of Porto Rico, with special reference to establishment of an agricultural experiment station in that island, [by Seaman A. Knapp.] 1901. 32 pp.

7 pł.

Same, 56th Cong., 2d sess., H. doc. 171; serial no. 4117.

St2 Station publications. List of Station publications lacking in library of office of Experiment Stations. Nov. 1, 1892. n. t. p. 4 pp.

#### Bulletins A10.3:

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1 No. 1. Organization of Agricultural Experiment Stations in U. S. 1889. 82 pp.

No. 2. Digest of annual reports of Experiment Stations in U. S., 1888, pt. 1. 1889. 258 pp.

Same, pt. 2. 1891. 173 pp.

No. 3. Report of meeting of horticulturists of Agricultural Experiment Stations, at Columbus, Ohio, June 13, 14, 1889; by A. W. Harris. 1889. 12 pp.

No. 4. List of horticulturists of Agricultural Experiment Stations in U.S., with outline of work in horticulture at the several stations; by W. B. Alwood. 1889. 27 pp.

No. 5. Organization lists of Agricultural Experiment Stations and agricultural schools and colleges in U.S. 1890. 67 pp.

No. 6. List of botanists of Agricultural Experiment Stations in U.S., with outline of work in botany at the several stations. 1890. 23 pp.

No. 7. Proceedings of 5th annual convention Association of American Agricultural Colleges and Experiment Stations, Washington, D. C., Aug. 12-18, 1891; edited by A. W. Harris and H. E. Alvord. 1892. 113 pp.

No. 8. Six lectures on investigations at Rothamsted Experimental Station, delivered under provisions of Lawes Agricultural trust by Robt. Warington, before Association of American Agricultural Colleges and Experiment Stations at Washington, D. C., Aug. 12–18, 1891. 1892. 113 pp. 11 pl.

9 | No. 9. Fermentations of milk; by H. W. Conn. 1892. 75 pp.

No. 10. Meteorological work for agricultural institutions; [by] Mark W. Harrington. 1892. 23 pp.

No. 11. Compilation of analyses of American feeding stuffs; by E. H. 11 Jenkins and A. L. Winton. 1892. 155 pp.

12 No. 12. Organization lists of Agricultural Experiment Stations and agricultural schools and colleges in U.S. 1892. 78 pp.

No. 13. Organization lists of Agricultural Experiment Stations and agri-13

cultural schools and colleges in U.S. 1893. 123 pp.

14 No. 14. Proceedings of convention of National League for Good Roads, held at Washington, D. C., Jan. 17, 18, 1893, and hearing by Committee on Agriculture of House of Representatives January **19**, 1893. 1893. 101 pp.

15 No. 15. Handbook of experiment station work; a popular digest of publications of the agricultural experiment stations in U.S. 1893.

Same, 54th Cong., 1st sess., H. doc. 381; serial no. 3435.

Classifica- tion no.	A10.	EXPERIMENT STATIONS OFFICE—Continued
A10.3:	Bulletin	ns—Continued
16	Agr No	roceedings 6th annual convention of Association of American ricultural Colleges and Experiment Stations, New Orleans, La., v. 15–19, 1892; edited by A. W. Harris and H. E. Alvord. 1893. pp.
17	No. 17. Se wit	uggestions for establishment of food laboratories in connection hagricultural experiment stations of U.S.; [by Edward]
18	No. 18. C	cinson]. 1893. 20 pp. ontribution to investigation of assimilation of free atmospheric rogen by white and black mustard; by J. P. Lotsy. 1894. 19 pp.
19	No. 19. O	rganization lists of agricultural experiment stations and agritural schools and colleges in U.S. 1894. 99 pp.
20	No. 20. P Agr 17-	roceedings of 7th annual convention of Association of American ricultural Colleges and Experiment Stations, Chicago, Ill., Oct. 19,1893; edited by A. C. True and H. E. Alvord. 1894. pp.
21	No. 21. M	lethods and results of investigations on chemistry and economy bood; by W. O. Atwater. 1895. 222 pp.
22	yea	gricultural investigations at Rothamsted, England, during 50 ars; six lectures delivered under provisions of Lawes agricultural st; by Sir Joseph Henry Gilbert. 1895. 316 pp. 3 pl.
23	No. 23. O tuti	rganization lists of agricultural experiment stations and insti- ions with courses in agriculture in U.S. 1895. 88 pp.
<b>24</b>	Agı	roceedings 8th annual convention of Association of American ricultural Colleges and Experiment Stations, Washington, D. C., v. 13–15, 1894; edited by A. C. True and H. H. Goodell. 1895.
<b>25</b> '	No. 25. D	airy bacteriology; by H. W. Conn. 1895. 40 pp.
26	No. 26. A	gricultural experiment stations, their objects and work; by A. C. ie. 1895. 16 pp.
27	No. 27. O tion	rganization lists of agricultural experiment stations and institu- n having courses in agriculture in U.S. 1896. 93 pp.
28 ¹	Atv	hemical composition of American food materials; by W. O. vater and Chas. D. Woods. 1896. 47 pp.
28 ²		rev. ed.; by W. O. Atwater and A. P. Bryant. 1899. 87 pp.
<b>29</b> .		Pietary studies at University of Tennessee in 1895; by Chas. E. it, with comments by W. O. Atwater and Chas. D. Woods. 1896.
30		roceedings of 9th annual convention of Association of American
	Agı	ricultural Colleges and Experiment Stations, Denver, Colo., July 18, 1895; edited by A. C. True and H. H. Goodell. 1896. 100 pp.
31	to l Cal	Pietary studies at University of Missouri in 1895 and data relating bread and meat consumption in Missouri; by H. B. Gibson, S. vert, and D. W. May, with comments by W. O. Atwater and as. D. Woods. 1896. 24 pp.
32	No. 32. D Win	Dietary studies at Purdue University, Lafayette, Ind., in 1895; by nthrop E. Stone, with comments by W. O. Atwater and Chas. D. ods. 1896. 28 pp.
33	use 433 Same,	otton plant: its history, botany, chemistry, culture, enemies, and s; [Report] with introduction by Charles W. Dabney. 1896. pp. 1 l. 4 pl. 54th Cong., 2d sess., H. doc. 267; serial no. 3536. p. A1.9:47 and A1.9:48.
34	No. 34. C enz Sto	arbohydrates of wheat, maize, flour, and bread, and action of symic ferments upon starches of different origin; by Winthrop E. ne. 1896. 44 pp. awn Jan., 1898; reissued Jan., 1899; again withdrawn June 24, 1899.]
35	by	ood and nutrition investigations in New Jersey in 1895 and 1896; Edward B. Voorhees. 1896. 40 pp.
36	Phe	otes on irrigation in Connecticut and New Jersey; by C. S. elps and Edward B. Voorhees. 1897. 64 pp.
37		vietary studies at Maine State College in 1895; by Whitman H. dan. 1897. 57 pp.

#### Classifica-A10. EXPERIMENT STATIONS OFFICE—Continued tion no. **Bulletins—**Continued A10.3:

38 No. 38. Dietary studies with reference to food of negro in Alabama, in 1895 and 1896, conducted with cooperation of Tuskegee Normal and Industrial Institute and the Agricultural and Mechanical College of Alabama; reported by W. O. Atwater and Chas. D. Woods. 1897. 69 pp. 2 pl.

No. 39. Organization lists of agricultural experiment stations and institutions with courses in agriculture in U.S. 1897. 96 pp.

40¹ No. 40. Dietary studies in New Mexico in 1895; by Arthur Goss. 1897. 23 pp.

40<sup>2</sup> Same. 1899. 23 pp.

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41 No. 41. Proceedings of 10th annual convention of Association of American Agricultural Colleges and Experiment Stations, Washington, D. C., Nov. 10–12, 1896; edited by A. C. True and H. H. Goodell. 1897. 120 pp.

42 No. 42. Cotton culture in Egypt; by George P. Foaden. 1897. 34 pp. **43** No. 43. Losses in boiling vegetables and composition and digestibility of potatoes and eggs; [articles] by H. Snyder and Almah J. Frisby and A. P. Bryant. 1897. 31 pp.

No. 44. Report of preliminary investigations on metabolism of nitrogen and 44 carbon in human organism, with respiration calorimeter of special construction; by W. O. Atwater, C. D. Woods, and F. G. Benedict. 1897. 64 pp.

45<sup>1</sup> No. 45. Digest of metabolism experiments in which the balance of income and outgo was determined; by W. O. Atwater and C. F. Langworthy. 1897. 434 pp.

45° Same, rev. ed. 1898. 434 pp.

No. 46. Dietary studies in New York City in 1895 and 1896; by W. O. 46 Atwater and Chas. D. Woods. 1898. 117 pp.

47 No. 47. Organization lists of agricultural experiment stations and institutions with courses in agriculture in U.S. 1898. 96 pp.

48 No. 48. Report to Congress on agriculture in Alaska, including reports by Walter H. Evans, Benton Killin, and Sheldon Jackson. 1898. iv + 36 pp. 23 pl.

Same, 55th Cong., 2d sess., H. doc. 160; serial no. 3667.

**49** No. 49. Proceedings of 11th annual convention of Association of American Agricultural Colleges and Experiment Stations, Minneapolis, July 13-15, 1897; edited by A. C. True and H. H. Goodell. 1898. 100 pp.

**50** No. 50. Work and expenditures of agricultural experiment stations for 1897; by A. C. True. 1898. vi + 97 pp. 6 pl.

Same, 55th Cong., 2d sess., H. doc. 205; serial no. 3667.

51 No. 51. Statistics of land-grant colleges and agricultural experiment stations in U.S. for year ending June 30, 1897. [Compiled by Miss S. L. Sommers. 1898. 39 pp.

**52** No. 52. Nutrition investigations in Pittsburg, Pa., 1894–96; by Isabel 1898. 48 pp. Bevier.

**53** No. 53. Nutrition investigations at University of Tennessee in 1896 and 1897; by Chas. E. Wait. 1898. 46 pp. **54** 

No. 54. Nutrition investigations in New Mexico in 1897; by Arthur Goss. 1898. 20 pp. 1 pl.

**55** No. 55. Dietary studies in Chicago, 1895 and 1896, conducted with cooperation of Jane Addams and Caroline L. Hunt, of Hull House; reported by W. O. Atwater and A. P. Bryant. 1898. 76 pp.

56 No. 56. History and present status of instruction in cooking in public schools of New York City, 1899; reported by (Mrs.) Louise E. Hogan, with introduction by A. C. True. 1899. 70 pp. 12 pl. [Withdrawn.]

No. 57. Varieties of corn; by E. L. Sturtevant. 1899. 108 pp. 57

**58** No. 58. Water rights on Missouri River and tributaries, by Elwood Mead; with papers on water laws of Colorado, by John E. Field, and of Nebraska, by J. M. Wilson. 1899. 80 pp. 3 pl. **59** 

No. 59. Organization lists of agricultural colleges and experiment stations in U. S., with list of agricultural experiment stations in foreign countries. 1899. 15 pp.

## Tables Classifica-A10. EXPERIMENT STATIONS OFFICE—Continued tion no. **A**10.3: **Bulletins—**Continued No. 60. Abstract of laws for acquiring titles to water from Missouri River and tributaries, with legal forms in use; compiled by Elwood Mead. 1899. 77 pp. 61 No. 61. Report of work and expenditures of agricultural experiment stations for year ended June 30, 1898; by A. C. True. 1899. vi+113 pp. 14 pl. Same, 55th Cong., 3d sess., H. doc. 121; serial no. 3768. 62 No. 62. Second report to Congress on agriculture in Alaska, including reports; by C. C. Georgeson and Walter H. Evans. 1899. vii+51 pp. 12 pl. Same, 55th Cong., 3d sess., H. doc. 169; serial no. 3768. 63 No. 63. Description of a new respiration calorimeter and experiments on conservation of energy in human body; by W.O. Atwater and E.B. 1899. 94 pp. 18 pl. (Slip of corrections for page 86.) No. 64. Statistics of land-grant colleges and experiment stations in U.S. 64 for year ending June 30, 1898; [compiled by Miss S. L. Sommers]. 1899. 39 pp. **65** No. 65. Proceedings of 12th annual convention of Association of American Agricultural Colleges and Experiment Stations, Washington, D. C., Nov. 15-17, 1898; edited by A. C. True, W. H. Beal, and H. H. Goodell. 1899. 138 pp. 66

No. 66. Physiological effect of creatin and creatinin, and their value as nutrients; by J. W. Mallet. 1899. 24 pp.

No. 67. Studies on bread and bread making; [articles] by Harry Snyder

and L. A. Voorhees. 1899. 51 pp. 2 pl.

No. 68. Description of some Chinese vegetable food materials and their nutritive and economic value; by Walter C. Blasdale. 1899. **48** pp. 8 pl.

No. 69. Experiments on metabolism of matter and energy in human body; 69 I by W. O. Atwater and F. G. Benedict, with collaboration of A. W. Smith and A. P. Bryant. 1899. 112 pp.

Same, revised edition. 1899. 112 pp.

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No. 70. Water-right problems of Bear River; [articles] by Clarence T. 70 Johnston and Joseph A. Breckons. 1899. 40 pp. 9 pl.

No. 71. Dietary studies of negroes in eastern Virginia in 1897 and 1898; 71 [articles] by H. B. Frissell and Isabel Bevier. 1899. 45 pp. 72

No. 72. Farmers' reading courses; by L. H. Bailey. 1899.

No. 73. Irrigation in Rocky Mountain States; by J. C. Ulrich. 1899. 64 73 pp. 10 pl.

74 No. 74. Organization lists of agricultural colleges and experiment stations in U.S., with list of agricultural experiment stations in foreign countries. 1900. 121 pp.

No. 75. Dietary studies of university boat crews; by W. O. Atwater and A. P. Bryant. 1900. 72 pp.

No. 76. Proceedings of 13th annual convention of Association of American 76 Agricultural Colleges and Experiment Stations, San Francisco, Cal., July 5-7, 1899; edited by A. C. True, W. H. Beal, and H. H. Goodell. 1900. 112 pp.

No. 77. Digestibility of American feeding stuffs; by Whitman H. Jordan 77 and Frank H. Hall. 1900. 100 pp.

No. 78. Statistics of land-grant colleges and agricultural experiment stations, 1899 [compiled by Miss J. A. Davis]. 1900. 39 pp.

No. 79. Farmers' institutes, history and status in U.S. and Canada; by

L. H. Bailey. 1900. 34 pp. No. 80. [History and present status of] Agricultural experiment stations in U. S.; by A. C. True and V. A. Clark. Paris Exposition, 1900, prepared to accompany experiment station exhibit. 1900. 636 pp. 153 pl. map.

Same, 56th Cong., 2d sess., H. doc. 507; serial no. 4170.

No. 81. Use of water in irrigation in Wyoming and its relation to owner-81 ship and distribution of natural supply; by B. C. Buffum. 56 pp. 8 pl.

#### Classifica-A10. EXPERIMENT STATIONS OFFICE—Continued tion no. A10.3: Bulletins—Continued 82 No. 82. Agricultural investigations in Alaska, 1899; by C. C. Georgeson. 1900. 55 pp. 17 pl. Same, 56th Cong., 1st sess., H. doc. 314; serial no. 3929. 83 No. 83. Work and expenditures of agricultural experiment stations for year ended June 30, 1899; by A. C. True. 1900. vi+111 pp. Same, 56th Cong., 1st sess., H. doc. 500; serial no. 3929. 84 No. 84. Nutrition investigations at California agricultural experiment station, 1896–1898; by M. E. Jaffa. 1900. 39 pp. **85** No. 85. Investigations on digestibility and nutritive value of bread; by Chas. D. Woods and L. H. Merrill. 1900. 51 pp. 86 No. 86. Use of water in irrigation; report of investigations made in 1899 under supervision of Elwood Mead and C. T. Johnston, including reports by special agents and observers W. M. Reed, W. H. Code, W. Irving, O. V. P. Stout, Thomas Berry, S. Fortier, R. C. Gemmell, G. L. Swendsen, and D. W. Ross. 1900. 253 pp. 50 pl. Same, 56th Cong., 2d sess., H. doc. 466; serial no. 4117. 87 No. 87. Irrigation in New Jersey; by Edward B. Voorhees. 1900. 40 pp. 88 No. 88. Organization lists of agricultural colleges and experiment stations in U.S., with list of agricultural experiment stations in foreign **countries.** 1901. 134 pp. 89 No. 89. Experiments on effect of muscular work upon digestibility of food and metabolism of nitrogen, conducted at University of Tennessee, 1897 to 1899; by Chas. E. Wait. 1901. 77 pp. **90** No. 90. Irrigation in Hawaii; by Walter Maxwell. 1900. 48 pp. 6 pl. 91 No. 91. Nutrition investigations at University of Illinois, North Dakota Agricultural College, and Lake Erie College, Ohio, 1896–1900; by H. S. Grindley, J. L. Sammis, E. F. Ladd, Isabel Bevier, and Elizabeth C. Sprague. 1900. 42 pp. <del>92</del> No. 92. Reservoir system of Cache la Poudre Valley; by E. S. Nettleton. 1991. 48 pp. 14 pl. 93 No. 93. Work and expenditures of agricultural experiment stations for year ended June 30, 1900; by A. C. True. 1901. 181 pp. 8 pl. Same, 56th Cong., 2d sess., H. doc, 336; serial no. 4116. 94 No. 94. Fourth report on agricultural investigations in Alaska, 1900; by C. C. Georgeson. 1901. 83 pp. 24 pl. Same, 56th Cong., 2d sees., H. doc. 335; serial no. 4117. 95 No. 95. Report on agricultural resources and capabilities of Hawaii; by Wm. C. Stubbe. 1901. 100 pp. 28 pl. Same, 56th Cong., 2d sess., H. doc. 368; serial no. 4117. 96 No. 96. Irrigation laws of northwest territories of Canada, and of Wyoming, with discussions by J. S. Dennis, Fred Bond, and J. M. Wil-1901. 90 pp. 6 pl. No. 97. Statistics of land-grant colleges and agricultural experiment 97 stations in U.S., for year ended June 30, 1900 [compiled by Miss Marie T. Spethmann]. 1901. 37 pp. 98

No. 98. Effect of severe and prolonged muscular work on food consumption, digestion, and metabolism, by W. O. Atwater and H. C. Sherman; and Mechanical work and efficiency of bicyclers, by **R. C. Carpenter.** 1901. 67 pp.

99 No. 99. Proceedings of 14th annual convention of Association of American Agricultural Colleges and Experiment Stations, Nov. 13-15, 1900; edited by A. C. True, W. H. Beal, and H. H. Goodell. 1901. 192 pp. 3 pl.

No. 100. Report of irrigation investigations in California under direction of Elwood Mead, assisted by William E. Smythe, Marsden Manson, J. M. Wilson, Charles D. Marx, Frank Soulé, C. E. Grunsky, Edward M. Boggs, and James D. Schuyler. 1901. 29 pl. 4°

Same, 57th Cong. 1st sess., S. doc. 356; serial no. 4246.

100

[Preliminary report, 73 pp., transmitted to Congress, Jan. 24, 1901. (56-2, S. doc. 108; serial no. 4033.)]

Classification no. **EXPERIMENT STATIONS OFFICE**—Continued

# A10.3: Bulletins—Continued

101 No. 101. Studies on bread and bread making at University of Minnesota, 1899 and 1900; by Harry Snyder. 1901. 65 pp. 3 pl.

No. 102. Experiments on losses in cooking meat, 1898–1900; by H. S. Grindley, with cooperation of H. McCormack and H. C. Porter. 1901. 64 pp.

No. 103. Evolution of reaping machines; by Merritt Finley Miller. 1902. 43 pp. 9 pl.

No. 104. Report of irrigation investigations for 1900; under supervision of Elwood Mead, including reports by special agents and observers W. M. Reed, W. H. Code, A. J. McClatchie, W. Irving, J. M. Wilson, R. C. Gemmell, G. L. Swendsen, O. V. P. Stout, W. H. Fairfield, D. W. Ross, O. L. Waller, S. Fortier, and J. C. Nagle. 1902.

105 No. 105. Irrigation in U. S.; testimony of Elwood Mead before Industrial Commission, June 11 and 12, 1901. Reprinted from report of U. S. Industrial Commission on agriculture and agricultural labor. 1901. 47 pp. 12 pl.

334 pp. 25 pl. 3 maps.

No. 106. Results of investigations on Rothamsted soils, being lectures delivered under provisions of Lawes agricultural trust, by Bernard Dyer, before Association of American Agricultural Colleges and Experiment Stations at New Haven and Middletown, Conn., Nov., 1900. 1902. 180 pp.

107 No. 107. Nutrition investigations among fruitarians and Chinese at California Agricultural Experiment Station, 1899–1901; by M. E. Jaffa.

1901. 43 pp. 1 pl.

No. 108. Irrigation practice among fruit growers on Pacific coast; by E. J. Wickson. 1902. 54 pp. 10 pl.

No. 109. Experiments on metabolism of matter and energy in human body, 1898–1900; by W. O. Atwater and F. G. Benedict, with cooperation of A. P. Bryant, A. W. Smith, and J. F. Snell. 1902. 147 pp.

No. 110. Proceedings of 6th annual meeting of American Association of Farmers' Institute Workers, Buffalo, Sept. 18 and 19, 1901; edited by A. C. True, D. J. Crosby, and G. C. Creelman. 1902. 55 pp.

111 No. 111. Organization lists of agricultural colleges and experiment stations in U. S., with list of agricultural experiment stations in foreign countries. 1902. 130 pp.

112 No. 112. Agricultural experiment stations in foreign countries; by A. C. True and D. J. Crosby. 1902. 230 pp.

No. 113. Irrigation of rice in U. S.; [articles] by Frank Bond and George H. Keeney. 1902. 77 pp. 29 pl.

No. 114. Statistics of land-grant colleges and agricultural experiment stations in U. S. for year ended June 30, 1901 [compiled by Miss Marie T. Spethmann]. 1902. 39 pp.

No. 115. Proceedings of 15th annual convention of Association of American Agricultural Colleges and Experiment Stations, held at Washington, D. C., Nov. 12–14, 1901; edited by A. C. True, W. H. Beal, and H. H. Goodell. 1902. 134 pp.

No. 116. Dietary studies in New York City in 1896 and 1897; by W. O. Atwater and A. P. Bryant. 1902. 83 pp.

No. 117. Experiments on effect of muscular work upon digestibility of food and metabolism of nitrogen, conducted at University of Tennessee, 1899–1900; by Chas. E. Wait. 1902. 43 pp.

No. 118. Irrigation from Big Thompson River; by John E. Field. 1902. 75 pp. 6 pl.

No. 119. Report of irrigation investigations for 1901, containing Summary of results, by R. P. Teetle, and Reports by W. M. Reed, W. H. Code, A. J. McClatchie, E. W. Hilgard, W. Irving, A. E. Chandler, O. L. Waller, D. W. Ross, Samuel Fortier, A. P. Stover, O. V. P. Stout, H. J. Waters, F. H. King, E. B. Voorhees, and J. C. Nagle. 1902. 401 pp. 64 pl.

#### Classifica-A10. EXPERIMENT STATIONS OFFICE—Continued tion. no A10.3: **Bulletins**—Continued No. 120. Proceedings of 7th annual meeting of American Association of 120 Farmers' Institute Workers, held at Washington, D. C., June 24-26, 1902; edited by A. C. True, D. J. Crosby, and G. C. Creelman. 1902. 119 pp. 121 No. 121. Experiments on metabolism of nitrogen, sulphur, and phosphorus in the human organism; by H. C. Sherman. Conducted in cooperation with Columbia University. 1902. 47 pp. A10 3a: Bulletins (separates) [A few of the more important articles contained in the Bulletins were issued separately in pamphlet form. References to all the articles will be found under their proper headings in the index to this work]. A 10.4: Circulars 1 No. 1. List of agricultural experiment stations in U.S., with addresses. Feb. 1, 1889. n. p. n. d. 7 pp. No. 2. [In regard to meeting of those interested in use of fertilizers. Jan. 31, 1889. n. t. p. [3] pp. No. 3. [Extract from proceedings of Knoxville Convention.] Feb. 6, ٧ 1889. n. t. p. [3] pp. ١; No. 4. Memorandum for station reports. Feb. 12, 1889. n. p. n. d. 4 pp. 4 No. 5. [Call for meeting of experiment stations for discussion.] Feb. 25, ٧ 1889. (Circ.) No. 6. List of originators of fruits, vegetables, etc., in U.S., with addresses **∀** 6 and names of specialists. Mar. 8, 1889. 7 l. f° [Mimeographed; never printed.] No. 7. Cooperative field experiments with fertilizers. Mar., 1889. n. p. n. d. 39 pp. No. 8. Explanations and directions for soil tests with fertilizers. 1889. n. p. n. d. 11 pp. v 9 No. 9. Memorandum for report on farmers' institutes in United States. n. d. 4 l. blank. No. 10. [Horticulturists' circular, schedule of questions. List of horti-· 10 culturists and botanists of Experiment Stations in U. S.] June 27, 1889. 7 l. f° [Mimeographed; never printed.] ١١ ٢ No. 11. Rules for naming vegetables. Report of Committee of Experiment-Station Horticulturists. Sept., 1889. n. p. n. d. [3] pp. No. 12. Regarding library and publications of Office of Experiment · 12 Stations. July, 1889. 3 pp. n. p. n. d. (c. t. o.) **13** No. 13. [Calling attention to meeting of American agricultural colleges and experiment stations. Oct. 16, 1889. n. t. p. [3] pp. · 14 No. 14. [Calling attention to meeting of official economic entomologists.] Oct. 28, 1889. n. t. p. [3] pp. No. 15. Inquiries regarding investigations in botany at agricultural col-**15** leges and experiment stations. Jan., 1890. n. p. n. d. [4] pp. No. 16. [Relating to publications of Office.] n. d. n. t. p. [3] pp. 17 No. 17. Letter to manufacturers of spray machinery. n. d. n. t. p. [3] pp. No. 18. List of originators of fruits and vegetables in United States, with addresses and names of specialties. n. p. n. d. 12 pp. No. 19. Experiments with fertilizers on fruits and vegetables, to study **v** 19 feeding capacities of plants and variations due to action of fertilizers. Mar., 1891. n. t. p. 4 pp. No. 20. Organization list of agricultural experiment stations in U. S. 20 June, 1891. n. p. n. d. 21 pp.

[3] pp.

Aug. 13, 1891. n. p. n. d. [4] pp.

<sup>1</sup> 21

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No. 21. Fifth annual convention of Association of American Agricultural

No. 22. [Letter relative to] subject index of literature of agricultural

Colleges and Experiment Stations; delegates and visitors registered.

experiment stations and kindred institutions. Nov., 1891. n. t. p.

Classifica- tion no.	A10. EXPERIMENT STATIONS OFFICE—Continued
A10.4:	Circulars—Continued
231	No. 23. Key to subject index of literature of agricultural experiment stations, and kindred institutions. Dec., 1893. n. p. n. d. [3] pp. 12°.
23 <sup>2</sup> 24	Same, revised. Apr. 25, 1902. [3] pp. 8°. No. 24. Address list of agricultural experiment stations. [Dec., 1893.]
25 ¹ 25 ²	(Circ.) No. 25. Report on canaigre. May 15, 1894. n. t. p. 4 pp. Same, rev. Nov. 20, 1897. n. t. p. 4 pp.
∨ <b>26</b>	No. 26. Address list of agricultural colleges and experiment stations.  n. d. n. t. p. 4 pp.
27	No. 27. Statistics of agricultural colleges and experiment stations, 1894.  May 16, 1895. n. t. p. 18 pp.
28 <sup>1</sup> 28 <sup>2</sup>	No. 28. Report on broom corn. Jan. 8, 1896. n. t. p. 4 pp. Same, rev. Nov. 20, 1897. n. t. p. 4 pp.
28 <sup>s</sup> 29	Same, rev. Oct. 3, 1900. n. t. p. 4 pp.  No. 29. Work and expenditures of agricultural experiment stations.  Mar. 10, 1896. 4 pp.
	[Also printed as appendix to Annual report of Director, 1896. See A10.1:396, p. 141; and also for other prints, see A10.3:59, p. 96, and A10.3:74, p. 101.]
· 30	No. 30. Permanent elements in experiment station work; by A. C. True.  May 26, 1896. n. t. p. 4 pp.
31	No. 31. Some books on agriculture and agricultural science, published 1893-96; [compiled by F. H. Hall]. Nov. 2, 1896. n. t. p. 176 pp., interleaved.
321	No. 32. Report of committee on methods of teaching agriculture. Dec. 8, 1896. n. t. p. 20 pp.
32 2	Same, rev. Nov. 15, 1897. n. t. p. 20 pp. (Also in A10.3:41, p. 57.)
33	No. 33. Civil service [reform] in Department of Agriculture; by Charles W. Dabney, jr. Jan. 26, 1897. n. t. p. 10 pp.
34 35	No. 34. Rules and apparatus for seed testing. Feb. 17, 1897. n. t. p. 9 pp. No. 35. Statistics of land-grant colleges and agricultural experiment stations, 1896. Apr. 1, 1897. n. t. p. 18 pp.
36	No. 36. Constitution of Association of American Agricultural Colleges and Experiment Stations. [1897.] n. t. p. 4 pp.
37 1	No. 37. Second report of committee on methods of teaching agriculture.  July 24, 1897. n. t. p. 4 pp.
37 2	Same, rev. Nov. 15, 1897. n. t. p. 4 pp.
38	No. 38. Some books on agriculture and sciences related to agriculture; published 1896–98. July 1, 1898. 45 pp.
39	No. 39. Third report of committee on methods of teaching agriculture.  Nov. 21, 1898. n. t. p. 7 pp.
40	No. 40. Land-grant and other colleges and national defense; by Charles W. Dabney, jr. n. d. n. t. p. 15 pp.
41	No. 41. Fourth report of committee on methods of teaching agriculture. Sept. 28, 1899. n. t. p. 7 pp.
42	No. 42. German common school with a garden; by C. B. Smith. Oct. 28, 1899. n. t. p. 7 pp.
431	No. 43. [Report on] Food; Nutrients; Food economy. Oct. 31, 1899. n. t. p. 6 pp.
43 <sup>2</sup> 44 <sup>1</sup>	Same, revised. June 20, 1900. n. t. p. 6 pp. No. 44. Agriculture experiment stations in U. S.; [by A. C. True. June 8, 1900.] n. p. n. d. 8 pp.
44 ² 45	Same, revised, 1901. 11 pp.  No. 45. Fifth report of Committee on methods of teaching agriculture.
	Jan. 5, 1901. n. t. p. 8 pp.
46	No. 46. Functions and uses of food; by C. F. Langworthy. Apr. 5, 1901.  n. t. p. 10 pp.
47	No. 47. [Outline of general plan of] card index of experiment station literature; by A. C. True. Apr. 19, 1902. n. t. p. 2 pp.
48	No. 48. What the Department of Agriculture is doing for Irrigation; by Elwood Mead. Oct. 14, 1902. n. t. p. 4 p.  No. 49. Secondary courses in agriculture. Oct. 17, 1902. n. t. p. 10 pp.
49	No. 49. Secondary courses in agriculture. Oct. 17. 1902. n. t. p. 10 pp.

# Classification no. **EXPERIMENT STATIONS OFFICE**—Continued

# A10.5: | Miscellaneous bulletins

No. 1. Proceedings of 2d annual convention of Association of American Agricultural Colleges and Experiment Stations, Knoxville, Tenn. Jan. 1-3, 1889; edited by A. W. Harris and H. E. Alvord. 1889. 123 pp.

No. 2. Proceedings of 3d annual convention of Association of American Agricultural Colleges and Experiment Stations, Washington, D. C. Nov. 12-15, 1889; edited by A. W. Harris and H. E. Alvord. 1890.

142 pp.

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No. 3. Proceedings of 4th annual convention of Association of American Agricultural Colleges and Experiment Stations, Champaign, Ill. Nov. 11-13, 1890; edited by A. W. Harris and H. E. Alvord. 1891. 156 pp.

[Series discontinued.]

# A10.6: Experiment station record

[In the first three volumes of the Record the abstracts of the station reports were grouped by stations, arranged alphabetically by States. Beginning with Vol. 4, an arrangement by topics was adopted, each topic being edited by the department's expert in that line. The various topics usually treated in agricultural publications are all represented. With but few exceptions each number also contained a paper by some noted authority on a particular subject.]

V. 1. September, 1889–July, 1890. 1890. iii+358 pp.

No. 1. Sept., 1889, ix+56 pp.

No. 2. Nov., 1889, +57-115 pp.\*

No. 3. Jan., 1890, +117-174 pp.\*

No. 4. Mar., 1890, +175-243 pp.\*

No. 5. May, 1890, +245-307 pp.\*

No. 6. July, 1890, +309-358 pp.\* [Title-page and table of contents for vol. 1, issued with this number. iii pp.]

V. 2. August, 1890–July, 1891. 1891. xxxii+853 pp.

No. 1. Aug., 1890, iv + 40 pp.

No. 2. Sept., 1890, +41-88 pp.\*

No. 3. Oct., 1890, iv+89-138 pp.

No. 4. Nov., 1890, v+139-184 pp. No. 5. Dec., 1890, vi+185-264 pp.

No. 6. Jan., 1891, v+265-308 pp.

No. 7. Feb., 1891, vi+309-384 pp.

No. 8. Mar., 1891, vii+385-468 pp.

No. 9. Apr., 1891, +469-540 pp.\*

No. 10. May, 1891, vii+541-624 pp.

No. 11. June, 1891, vii+625-698 pp.

No. 12. July, 1891, vi+699-853 pp. [Title-page and table of contents for vol. 2, issued with this number. xxxii pp.]

3 V. 3. August, 1891-July, 1892. 1892. xxxviii+1059 pp.

No. 1. Aug., 1891, vi+72 pp.

No. 2. Sept., 1891, vi-+73-138 pp.

No. 3. Oct., 1891, vi+139-206 pp.

No. 4. Nov., 1891, vi+207-274 pp.

No. 5. Dec., 1891, vii+275-364 pp.

No. 6. Jan., 1892, vii+365-438 pp. No. 7. Feb., 1892, vi+439-506 pp.

No. 8. Mar., 1892, v+507-584 pp.

No. 9. Apr., 1892, vii +585-664 pp.

No. 10. May, 1892, vii+665-758 pp.

No. 11. June, 1892, vii+759-840 pp.

No. 12. July, 1892, vii+841-970 pp.

[No. 13.] Index. pp. 979-1059. [Title-page and table of contents for vol. 3, issued with this number. xxxviii pp.]

<sup>\*</sup>These early unbound numbers were not found, and in the bound volumes the preliminary lettered pages of contents, etc., have been eliminated. The pagination given is therefore not entirely complete.

Classifica-

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A10. EXPERIMENT STATIONS OFFICE—Continued
tion no.
A10.6:
          Experiment station record—Continued
          V. 4. August, 1892–July, 1893. 1893. xxx+1086 pp.
             No. 1. Aug., 1892, vii+110 pp.
             No. 2. Sept., 1892, vii+111-230 pp.
             No. 3. Oct., 1892, vi+231-322 pp.
             No. 4. Nov., 1892, vi+323-394 pp.
             No. 5. Dec., 1892, v+395-454 pp.
             No. 6. Jan., 1893, vi+455-524 pp.
                                                  (Errata slip.)
             No. 7. Feb., 1893, vi+525-624 pp.
             No. 8. Mar., 1893, vi+625-700 pp.
             No. 9. Apr., 1893, vii+701-790 pp.
             No. 10. May, 1893, vii+791-878 pp.
             No. 11. June, 1893, vii+879-994 pp.
             No. 12. July, 1893, [1]+995-1086 pp.
                                                     [Title-page and table of con-
                 tents for vol. 4, issued with this number. xxx pp.]
          V. 5. 1893-1894. 1895. xxxiv - 1227 pp.
             No. 1. 1893, viii + 138 pp.
             No. 2. 1893, viii + 139-268 pp.
             No. 3. 1893, vii+269-358 pp.
             No. 4. 1894, vi + 359 - 452 pp.
             No. 5. 1894, vi+453-546 pp.
             No. 6. 1894, viii+547-666 pp.
             No. 7. 1894, vi+667-744 pp.
             No. 8. 1894, vi + 745 - 830 pp.
             No. 9. 1894, vii+831-940 pp.
             No. 10. 1894, vii+941-1040 pp.
             No. 11. 1894, v+1041-1106 pp.
             No. 12. 1894, pp. 1107-1227. (Cover title only.) [Title-page and table
                 of contents for vol. 5, issued with this number. xxxiv pp.]
      6 V. 6. 1894–1895.
                            1896. xii+1134 pp.
             No. 1. 1894, vi + 88 pp.
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             No. 2. 1894, vi+89-174 pp.
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                                           (Cover title only.)
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             No. 4. 1895, vi+255-348 pp.
             No. 5. 1895, viii + 349 - 488 pp.
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             No. 6. 1895, vii+489-584 pp.
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             No. 11. 1895, vi+945-1032 pp.
             No. 12. 1895, pp. 1033–1134.
                                            (Cover title only.) [Title-page and
                 table of contents for vol. 6, issued with this number. xii pp.]
      7
          V. 7. 1895–1896. 1897. xii+1092 pp.
             No. 1. 1895, v+74 pp. (Cover title only.)
             No. 2. 1895, vii + 75-166 pp.
                                            (Cover title only.)
             No. 3. 1895, vi+167-260 pp.
                                            (Cover title only.)
             No. 4. 1895, v+261-342 pp.
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             No. 5. 1896, v+343-434 pp.
                                           (Cover title only.)
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             No. 7. 1896, v+535-632 pp.
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             No. 10. 1896, vi+815-901 pp.
                                            (Cover title only.)
             No. 11. 1896, vi+903-996 pp.
                                            (Cover title only.)
             No. 12. 1896, pp. 997-1092. (Cover title only.) [Title-page and table
                 of contents for vol. 7, issued with this number.
          V. 8. 1896–1897. 1897. xiv+1128 pp.
             No. 1. 1896, vi+94 pp. (Cover title only.)
             No. 2. 1896, vii+95-176 pp.
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                                            (Cover title only.)
             No. 3. 1896, vi+177-268 pp.
             No. 4. 1897, vii + 269 - 354 pp.
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             No. 5. 1897, vi+355-444 pp.
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A10.6: | Experiment station record—Continued
      8 | V. 8. 1896–1897—Continued
             No. 6. 1897, vi + 445 - 538 pp.
                                              (Cover title only.)
             No. 7. 1897, vi +539–638 pp.
                                             (Cover title only.)
             No. 8. 1897, v + 639 - 738 pp.
                                             (Cover title only.)
             No. 9. 1897, vii+739-838 pp.
                                              (Cover title only.)
             No. 10. 1897, v+839–938 pp.
                                             (Cover title only.)
             No. 11. 1897, vi+939-1036 pp.
                                              (Cover title only.)
                                              (Cover title only.)
             No. 12. 1897, pp. 1037–1128.
                                                                    [Title-page and
                table of contents for vol. 8, issued with this number. xiv pp.]
      9 V. 9. 1897–1898. 1898. xvi+1198 pp.
             No. 1. 1897, iv+100 pp.
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             No. 2. 1897, vi + 101-200 pp.
                                              (Cover title only.)
             No. 3. 1897, vi +201-300 pp.
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             No. 4. 1897, vii+301-400 pp.
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                                             (Cover title only.)
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             No. 11. 1898, v+1001-1100 pp.
                                             (Cover title only.)
                                             (Cover title only.)
             No. 12. 1898, pp. 1101–1198.
                                                                    [Title-page and
                table of contents for vol. 9, issued with this number. xvi pp.]
     10 V. 10. 1898.
                        1899. 1899. \text{ xvi} + 1208 \text{ pp.}
             No. 1. 1898, v+100 pp. (Cover title only.)
             No. 2. 1898, vi + 101-200 pp.
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                                             (Cover title only.)
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                table of contents for vol. 10, issued with this number. xvi pp.]
                             1900. xvi+1208 pp.
     11 | V. 11. 1899–1900.
             No. 1. 1899, vi+100 pp.
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                  7. 1900, v+601-700 pp.
                                             (Cover title only.)
                 8. 1900, v+701-800 pp.
             No.
                                             (Cover title only.)
             No. 9. 1900, vi+801-900 pp.
                                             (Cover title only.)
             No. 10, 1900, vi+901-1000 pp.
                                              (Cover title only.)
             No. 11. 1900, vii+1001-1100 pp. (Cover title only.)
                                            (Cover title only.)
                                                                    [Title-page and
             No. 12. 1900, pp. 1101–1208.
                table of contents for vol. 11, issued with this number. xvi pp.]
          V. 12. 1900-1901. 1901. xvi+1189 pp.
      12
                                         (Cover title only.)
             No. 1. 1900, vi + 100 pp.
             No. 2. 1900, vi+101-200 pp.
                                             (Cover title only.)
             No. 3. 1900, viii + 201-300 pp.
                                               (Cover title only.)
                 4. 1900, vi+301-400 pp.
                                             (Cover title only.)
             No. 5. 1901, vi+401-500 pp.
                                             (Cover title only.)
             No. 6. 1901, vi+501-600 pp.
                                             (Cover title only.)
                 7. 1901, vi+601-700 pp.
                                             (Cover title only.)
             No. 8. 1901, vi+701-800 pp.
                                             (Cover title only.)
             No. 9. 1901, vii+801-900 pp.
                                              (Cover title only.)
             No. 10. 1901, vii+901-1000 pp.
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(Cover title only.)

# Tables Classification no. A10. EXPERIMENT STATIONS OFFICE—Continued A10.6: Experiment station record—Continued 12 V. 12. 1900–1901—Continued

No. 11. 1901, vii+1001-1100 pp. (Cover title only.)

No. 12. 1901, pp. 1101-1189. (Cover title only.) [Title-page and table of contents for vol. 12, issued with this number. xvi pp.]

13 V. 13, 1901–1902. 1902. xviii+1206 pp.

No. 1. 1901, viii+100 pp. (Cover title only.) No. 2. 1901, ix+101-200 pp. (Cover title only.) No. 3. 1901, ix+201-300 pp. (Cover title only.)

No. 4. 1901, vii+301-400 pp. (Cover title only.) No. 5. 1902, viii+401-500 pp. (Cover title only.) No. 6. 1902, viii+501-604 pp. (Cover title only.)

No. 7. 1902, ix + 605 - 704 pp. 1 pl. (Cover title only.)

No. 8. 1902, ix + 705 - 806 pp. (Cover title only.)

No. 9. 1902, viii+807-906 pp. 1 pl. (Cover title only.)

No. 10. 1902, viii+907-1008 pp. (Cover title only.) No. 11. 1902, xi+1009-1112 pp. (Cover title only.)

No. 12. 1902, pp. 1113-1206. (Covertitle only.) [Title-page and table of contents for vol. 13, issued with this number. xviii pp.]

14 V. 14. No. 1. Sept., 1902. x+100 pp. (Cover title only.)
No. 2. Oct., 1902, viii+101-204 pp. (Cover title only.)
No. 3. Nov., 1902, viii+205-308 pp. (Cover title only.)
No. 4. Dec., 1902, x+309-412 pp. (Cover title only.)

# A10.6a: Experiment station record (separates)

[The papers mentioned in the note under A10.6: were each issued separately. References to them will be found under the proper headings in the index to this work.]

# A10.7: Food and diet charts

1 No. 1. 1896.

2 No. 2. 1896.

3 No. 3. 1896.

4 No. 4. 1896.

# A10.8: Irrigation investigation schedules

1 No. 1. [Postal card for collection of statistics.] n. d.

No. 2. Duty of water, general instructions to observers; by Elwood Mesd.

March 1, 1899. n. t. p. 4 pp.

3 No. 3. [Circular letter and blank form for answers to queries.] n. d. 2 sheets.

4 No. 4. [Circular letter and blank form for answers to queries.] May 1, 1899. 4 sheets.

# A10.9: Hawaii agricultural experiment station bulletins

No. 1. Chickens and their diseases in Hawaii; by T. F. Sedgwick. 1901. 23 pp.

No. 2. Root rot of taro; by T. F. Sedgwick, Honolulu, Hawaii, Hawaiian Gazette Company, 1902. 21 pp.

# A10.10: Alaska agricultural experiment stations bulletins

No. 1. Suggestions to pioneer farmers in Alaska; by C. C. Georgeson. 1902. n. t. p. 15 pp. 7 pl.

## A10.11: Experiment station work (volumes)

Vol. 1. Experiment station work, vol. 1, including Experiment station work I-XX (Farmers' bulletins 56, 65, 69, 73, 78, 79, 84, 87, 92, 97, 103, 105, 107, 114, 119, 122, 124, 133, 144, 149). 1902. xiv+[628]+xviii pp.

[Title-page, table of contents, index, and glossary for this volume were issued as a pamphlet of xiv+xviii pages in order that the 20 numbers of Experiment station work which had been issued as Farmers' bulletins (A1.9:) might be brought together. As each bulletin bears its own paging, the references in the index are somewhat awkward; but in future provision will be made for the volumes by issuing an extra edition of the Farmers' bulletins which contain the numbers of Experiment station work, without the bulletin numbers and with continuous paging.]

(lissifica-A10. EXPERIMENT STATIONS OFFICE—Continued tion no.

# A10.12: Porto Rico agricultural experiment station bulletin

No. 1 not issued 1902.

21 No. 2. The changa, or mole cricket, in Porto Rico; by O. W. Barrett. 1902. 20 pp.

22 Same. In Spanish. (La changa, o'grillotalpa en Puerto Rico.) 1902. 20 pp.

## A11. FIBER INVESTIGATIONS OFFICE

[Fiber investigations were begun by the Division of Statistics in 1889, and in 1890 a Section of Fiber Investigations was created in the Division. January 1, 1891, the Section was made independent, under the name Office of Fiber Investigations, and so continued until June 30, 1898, when its work was assigned to the Division of Botany. For historical sketch of Office, see Yearbook, 1897 (A1.10:897),

#### A11.1: | Annual reports

ANNUAL REPORT UPON FIBER INVESTIGATIONS 890

1890 (Dodge), [1]+451-470 pp. (Also in A1.1:890, p. 451.)
1891 (Dodge), [1]+417-438 pp. 2 pl. (Also in A1.1:891, p. 417.)
1892 (Dodge), [1]+359-376 pp. 6 pl. (Also in A1.1:892, p. 359.) 891 892 893

1893 (Dodge), iii+567-584 pp. 1 pl. (Also in A1.1:893, p. 567.)

1894 (Dodge). (In A1.1:894, p. 197.) 1895 (Dodge). (In A1.1:895, p. 187.)

REPORT OF SPECIAL AGENT OF OFFICE OF FIBER INVESTIGATIONS

1896 (Dodge), [1]+27-28 pp. (Also in A1.1:896, p. 27.) 896 1897 (Dodge), iii+21-24 pp. (Also in A1.1:897, p. 21.) 897

#### General publications A11.2:

[Publications which originated in this Office but which were published in a numbered series of the Secretary's office, or some other division of the Department, are entered only where such numbering places them, with references under the proper headings in the index to this work. Publications of the Office issued only as Congressional documents are noted in chronological order in the Appendix to this work.]

#### A11.3: Bulletins

None issued.

#### A11.4: Circulars

None issued.

#### A11.5: Reports

No. 1. Report on flax, hemp, ramie, and jute, with considerations upon **√** 1 flax and hemp culture in Europe, report on ramie machine trials of 1889 in Paris, and present status of fiber industries of U.S.; by Charles Richards Dodge. 2d ed. 1892. 104 pp. [For 1st edition see A27.8:1.]

No. 2. Recent facts regarding ramie industry in America, with brief statements relating to manufacture in Europe, etc.; by Charles Richards Dodge. 1893. 16 pp.

[Reprinted from Rp. of Statistician, May, 1891.]

No. 3. Sisal hemp culture in United States [Florida], with statements 3 relating to industry in Yucatan and Bahama Islands, and brief considerations upon question of machinery for extracting fiber; by Charles Richards Dodge. 1891. 59 pp. 8 pl.

No. 4. Flax culture for fiber in U.S., including special reports on flax culture in Ireland, Belgium, and Austria, with statements relative to the industry in Russia; by Charles Richards Dodge. 1892. 93 pp. 2 pl.

No. 5. Leaf fibers of U.S., detailing results of recent investigations relating to Florida sisal hemp, the false sisal hemp plant of Florida, and other fiber-producing agaves, bowstring hemp, pineapple fiber, New England flax, and bear grass; by Chas. Richards Dodge. 1893. 73 pp. 10 pl.

No. 6. Uncultivated bast fibers of U.S., including history of previous experiments with plants or fibers, and brief statements relating to allied species that are produced commercially in the old world; by Charles Richards Dodge. 1894. 54 pp. 5 pl.

#### Classification no. A11. FIBER INVESTIGATION OFFICE—Continued

# A11.5: | Reports-Continued

- No. 7. Cultivation of ramie in U. S., with statements concerning practice in foreign countries, cost of cultivation and percentages of yield, the machine question, and preparation of fiber for manufacture; by Chas. Richards Dodge. 1895. 63 pp. 5 pl.
- No. 8. Culture of hemp and jute in U. S., with statements concerning practice in foreign countries, preparation of fiber for market, and remarks on the machine question; by Chas. Richards Dodge. 1896. 43 pp. 3 pl.
- No. 9. Descriptive catalogue of useful fiber plants of world, including structural and economic classifications of fibers; by Chas. Richards Dodge. 1897. 361 pp. 13 pl.
- No. 10. Flax culture for seed and fiber in Europe and America; by Charles Richards Dodge. 1898. 80 pp. 4 pl.
- No. 11. Culture of hemp in Europe, including special consular report on growth of hemp in Italy; by Charles Richards Dodge. 1898. 29 pp.

## A12. FOREIGN MARKETS DIVISION

[Formerly Section of Foreign Markets. For historical sketch of Division, see Yearbook, 1897 (A1.10297), p. 270.]

# A12.1: | Annual reports

- 1897 (Hitchcock). (In A1.1:897, p. 177.) 898 | 1898 (Hitchcock), iii+163-166 pp. (Also in A1.1:898, p. 163.) 899 | 1899 (Hitchcock), iii+235-241 pp. (Also in A1.1:899, p. 235.) 900 | 1900 (Hitchcock), iii+265-272 pp. (Also in A1.1:900, p. 265.)
- 900 | 1900 (Hitchcock), 111+265-272 pp. (Also in A1.1:900, p. 265.) 901 | 1901 (Hitchcock), iii+163-169 pp. (Also in A1.1:901, p. 163.) 902 | 1902 (Hitchcock), [1]+377-382 pp. (Also in A1.1:902, p. 377.)

# A12.2: General publications

[Publications which originated in this Division but which were published in a numbered series of the Secretary's office, or some other division of the Department, are entered only where such numbering places them, with references under the proper headings in the index to this work. Publications of the Division issued only as ('ongressional documents are noted in chr. nological order in the Appendix to this work.)

## A12.3: Bulletins

- 1 No. 1. World's markets for American products: Great Britain and Ireland. 1895. 93 pp.
- $1^2$  | Same, supplement. 1895. [2] + 95–155 pp.
- No. 2. World's markets for American products: German Empire. 1895.
  91 pp. 1 pl.
- 3 No. 3. World's markets for American products: France. 1895. 74 pp.
- No. 4. World's markets for American products: Canada. 1895. 67 pp. No. 5. World's markets for American products: Netherlands. 1895. 76 pp.
- 6 No. 6. World's markets for American products: Belgium. 1895. 90 pp.
- 7<sup>1</sup> No. 7. World's markets for American products: Norway. 1896. 68 pp. 7<sup>2</sup> Same, revised edition. 1898. 68 pp.
- 81 No. 8. World's markets for American products: Sweden. 1896. 92 pp. 82 Same, revised. 1898. 93 pp.
- No. 9. Trade of Denmark; by Frank H. Hitchcock. 1900. 88 pp. 1 pl.
- No. 10. Our foreign trade in agricultural products during five fiscal years, 1893–97; by Frank H. Hitchcock. 1898. 38 pp.

  No. 11. Spain's foreign trade; by Frank H. Hitchcock. 1898. 47 pp.
- No. 11. Spain's foreign trade; by Frank H. Hitchcock. 1898. 47 pp.

  No. 12. Our trade with Spain, 1888-97; by Frank H. Hitchcock. 1898.

  47 pp.
- No. 13. Trade of Puerto Rico; by Frank H. Hitchcock. 1898. 84 pp.
- No. 14. Trade of Philippine islands; by Frank H. Hitchcock. 1898. 160 pp. 1 pl.
- No. 15. Our foreign trade in agricultural products, 1894–98; by Frank H. Hitchcock. 1899. 45 pp.

#### Classifics-A12. FOREIGN MARKETS DIVISION—Continued tion no. **412.3**: | **Bulletins**—Continued No. 16. Distribution of agricultural exports of U.S., 1894-98; by Frank H. 16 Hitchcock. 1899. 153 pp. 17 No. 17. Sources of agricultural imports of U.S., 1894–1898; by Frank H. Hitchcock. 1900. 118 pp. 18 No. 18. Our trade with Japan, China, and Hongkong, 1889–1899; by Frank H. Hitchcock. 1900. 168 pp. 19 No. 19. Our foreign trade in agricultural products, 1890–1899; by Frank H. Hitchcock. 1900. 62 pp. No. 20. Agricultural exports of U.S., by countries, 1895–1899; by Frank H. 20 Hitchcock. 1900. 88 pp. 21 No. 21. Agricultural imports of U.S., by countries, 1895–1899; by Frank H. Hitchcock. 1900. 74 pp. 22 No. 22. Our trade with Scandinavia, 1890-1900; by Frank H. Hitchcock. 1901. 124 pp. No. 23. Our foreign trade in agricultural products, 1891-1900; by Frank 23 H. Hitchcock. 1900. 61 pp. 24 No. 24. Sources of agricultural imports of U.S., 1896-1900; by Frank H. Hitchcock. 1901. 120 pp. 25 No. 25. Distribution of agricultural exports of U.S., 1896–1900; by Frank H. Hitchcock. 1901. 182 pp. 26 No. 26. Agricultural imports of the United Kingdom, 1896–1900; by Frank H. Hitchcock. 1902. 227 pp. 27 No. 27. Our foreign trade in agricultural products, 1892–1901; by Frank H. Hitchcock. 1902. 67 pp. 28 No. 28. Sources of agricultural imports of U.S., 1897-1901; by Frank H. Hitchcock. 1902. 132 pp. No. 29. Distribution of agricultural exports of U.S., 1897-1901; by Frank 29 H. Hitchcock. 1902. 202 pp. A12.4: Circulars No. 1. Peaches and other fruits in England. June 1, 1895. n. t. p. 2+ 1 No. 2. American dried apples in German Empire. n. t. p. n. d. 4 pp. $2^{1}$ 22 Same, 2d series [edition]. n. t. p. 3+[1] pp. No. 3. Imports and exports for 1893 and 1894. Aug. 19, 1895. n. t. p. 3 No. 4. Example for American farmers and dairymen. n. t. p. n. d. 3 pp. 4 No. 5. Treaty of Shimonoseki between China and Japan of April 17, 1895, 5 and our possibilities of trade with those countries. Oct. 16, 1895. n. t. p. 7 pp. No. 6. Imports and exports for 1893, 1894, and 1895. n. d. n. t. p. 6 pp. 6 No. 7. Extension of markets for American feed stuffs. n. d. n. t. p. 8 pp. No. 8. Manchester district of England as market for American products. 8 n. d. n. t. p. 8 pp. 9 No. 9. Imports and exports for 1893, 1894, 1895, and 1896. n. d. n. t. p. 10 No. 10. Course of wheat production and exportation in United States, Canada, Argentina, Uruguay, Russia, and British India, 1880–96. Oct. 23, 1896. n. t. p. 8 pp. 11 No. 11. Agricultural products imported and exported by United States, 1892–96. Jan. 9, 1897. n. t. p. 8 pp. 12 No. 12. Sources of principal agricultural imports of United States during 5 years ended June 30, 1896. Jan. 22, 1897. n. t. p. 24 pp. No. 13. Distribution of principal agricultural exports of United States 13 during 5 years ended June 30, 1896. Feb. 6, 1897. n. t. p. 24 pp. 14 No. 14. Hamburg as market for American products. Mar. 2, 1897. n. t. p. 10 pp. No. 15. Exports of cotton from Egypt. May 12, 1897. n. t. p. 7 pp. 15 [Reprinted from Bull. 2, Experiment Stations Office.] 16 No. 16. Our trade with Cuba from 1887 to 1897. June 10, 1897. n. t. p. 30 pp.

Classifica. A1:	2. FOREIG	N MARKETS	<b>DIVISION</b> —Continued
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## A12.4: Circulars—Continued

- No. 17. United States wheat for Eastern Asia. June 22, 1897. n. t. p. 8 pp.
- 18<sup>1</sup> No. 18. Hawaiian commerce, from 1887 to 1897. July 10, 1897. n. t. p. 37 pp.
- 18<sup>2</sup> Same, revised. May 12, 1898. n. t. p. 37 pp.
- No. 19. Austria-Hungary as factor in world's grain trade; Recent use of American wheat in that country. Oct. 5, 1897. n. t. p. 23 pp.
- No. 20. Agricultural imports and exports, 1893–97. Jan. 22, 1898. n.t.p. 15 pp.
- 21 No. 21. Agricultural imports and exports, 1894–98. Apr. 24, 1899. n. t. p. 16 pp.
- 22 No. 22. Agricultural imports and exports, 1895–99. Apr. 23, 1900. n. t. p. 16 pp.
- 23 No. 23. Agricultural imports and exports, 1896–1900. Feb. 20, 1901. 16pp.
- No. 24. Agricultural imports and exports, 1897–1901. Apr. 10, 1902. n. t. p. 16 pp.

## A13. FORESTRY BUREAU

[Formerly Division of Forestry. For historical sketch, see Yearbook 1897 (A1.10:897), p. 143.]

# A13.1: | Annual reports

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REPORT OF CHIEF OF DIVISION OF FORESTRY

1883 (Egleston). (In Al.1:883, p. 444.)
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- 1884 (Egleston). (In A1.1:884, p. 137.)
- 1885 (Egleston). (In A1.1:885, p. 183.) 1886 (Fernow), [1]+149-226 pp. 1 pl. (Also in A1.1:886, p. 149.)
- 887 | 1887 (Fernow), [1]+156 pp. (Abstract (pp. 605-616. 1 map.)
- In A1.1:887, p. 605.)
- 888 | 1888 (Fernow), iv+597-641 pp. 1 pl. (Also in A1.1:888, p. 597.)
- 889 | 1889 (Fernow), iv+273-330 pp. (Also in A1.1:889, p. 273.)
- 890 | 1890 (Fernow), iii+193-236 pp. (Also in A1.1:890, p. 193.)
- 891 | 1891 (Fernow), [1]+191-229 pp. 8 pl. (Also in Al.1:891, p. 191.)
- 892 | 1892 (Fernow), iii+293-358 pp. 6 pl. (Also in A1.1:892, p. 293.)
- 893 | 1893 (Fernow), iv+303-363 pp. 3 pl. (Also in A1.1:893, p. 303.)
  - 1894 (Fernow). (In A1.1:894, p. 133.)
  - 1895 (Fernow). (In A1.1:895, p. 149.)
- 896 | 1896 (Fernow), iii +83-88 pp. (Also in A1.1:896, p. 83.)
- 897 | 1897 (Fernow), ii+141-146 pp. (Also in A1.1: 897, p. 141.)
- 898 | 1898 (Pinchot), iii+169-173 pp. (Also in A1.1:898, p. 169.)
  - REPORT OF FORESTER.
- 899 | 1899 (Pinchot), iii+93-100 pp. (Also in A1.1:899, p. 93.)
- 900 | 1900 (Pinchot), iii+103-110 pp. (Also in A1.1:900, p. 103.)
- 901 | 1901 (Pinchot), iii+325-339 pp. (Also in A1.1:901, p. 325.) 902 | 1902 (Pinchot), iv+109-136 pp. (Also in A1.1:902, p. 109.)
- 902 | 1902 (Pinchot), iv+109-136 pp. (Also in Al

# A13.2: | General publications

- [Publications which originated in this Bureau, but which were published in a numbered series of the Secretary's office, or some other division of the Department, are entered only where such numbering places them, with references under the proper headings in the index to this work. Publications of the Bureau issued only as Congressional documents are noted in chronological order in the Appendix to this work.]
- B48 | Big trees of California. 1900. 30 pp. 17 pl.

[Also issued as Bulletin no. 28. See A13.3:28.]

- F76 Forest growth. Letter to Secretary of Agriculture regarding forest growth and timber consumption; by B. E. Fernow. Apr. 5, 1893. n. t. p. 3 pp.
- Lumber and wood trade. Letter from agent of Forestry Division requesting information as to extent of lumber and wood trade. July, 1883. fo sheet.\*
- Pines. Instructions for collection of test pieces of pines for timber investigations. [1892.] n. t. p. 4 pp.

\*No copy found.

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# A13. FORESTRY BUREAU—Continued

# A13.2: | General publications—Continued

R13 Railroads. Alphabetical list of land-grant and bond-aided railroads in U.S. (Extract from Army general orders, no. 140, and supplement.) 1902. 4 pp.

Statement of B. E. Fernow, Chief of Division of Forestry, Agriculture Department, before House Committee on Agriculture. Feb. 16, 1895. n. t. p. 4 pp.

Trees of Washington, D. C.; compliments of Forestry Division, G. B. Sudworth, botanist, B. E. Fernow, chief. [Wash., Bell Bros., 1891.] [16] pp. [2] maps. oblong 24° pap.\*

# A13.3: Bulletins.

No. 1. Relation of railroads to forest supplies and forestry; with appendices on structure of some timber ties, their behavior, and cause of their decay in road-bed; on wood preservation; on metal ties; and on use of spark arresters. 1887. 149 pp. 19 pl.

No. 2. Forest conditions of Rocky Mountains, and other papers; with maps showing location of forest areas on Rocky Mountain range.

1888. 252+[1] pp. 1 pl. 2 folded tables. 1 map.

Same. 2d edition. 1889.\*

No. 3. Preliminary report on use of metal track on railways as substitute for wooden ties, by E. E. Russell Tratman; to which is added a report of experiments in wood seasoning by Chicago, Burlington and Quincy Railroad Company, and other notes; compiled by B. E. Fernow. 1889. 79 pp.

No. 4. Substitution of metal for wood in railroad ties, by E. E. Russell Tratman; with discussion on practicable economies in use of wood for railway, purposes, by B. E. Fernow. 1890. 363 pp. 31 pl.

[For supplemental matter, see Bull. 9.]

No. 5. What is forestry? by B. E. Fernow. 1891. 52 pp.

No. 6. Timber physics: pt. 1, Preliminary report: Need of investigation; Scope and historical development of science of "Timber Physics"; Organization and methods of timber examinations in Division of Forestry; compiled by B. E. Fernow. 1892. iii+57+iv pp. 6 pl. 4° [For pt. 2, see Bull. 8.]

No. 7. Forest Influences: (1) Introduction and summary of conclusions, by B. E. Fernow; (2) Review of forest meteorological observations, a study preliminary to discussion of relation of forests to climate, by M. W. Harrington; (3) Relation of forests to water supplies, by B. E. Fernow; (4) Notes on sanitary significance of forests, by B. E. Fernow. Appendices: (1) Determination of true amount of precipitation and its bearing on theories of forest influences, by Cleveland Abbe; (2) Analysis of rainfall with relation to surface conditions, by George E. Curtis. 1893. 197 pp.

Same, reprinted 1902. 197 pp.

No. 8. Timber physics: pt. 2, Progress report: Results of investigations on long-leaf pine (Pinus palustris). 1893. vii+92 pp. 12 pl. 4° [For pt. 1, see Bulletin 6.]

No. 9. Use of metal railroad ties and preservative processes and metal tieplates for wooden ties; by E. E. Russell Tratman. Supplementary to [Bulletin no. 4] report on substitution of metal for wood in railroad ties, 1890. 1894. 363 pp. 5 pl.

No. 10. Timber, an elementary discussion of characteristics and properties of wood; by Filibert Roth. 1895. 88 pp.

11 No. 11. Some foreign trees for Southern States. 1895. 32 pp. 3 pl.

12<sup>1</sup> No. 12. Economical designing of timber trestle bridges; by A. L. Johnson. 1896. 57 pp.

12<sup>2</sup> Same, 1902. 57 pp.

No. 13. Timber pines of southern United States, by Charles Mohr; with discussion of structure of their wood, by Filibert Roth. 1896. 160 pp. 27 pl. 4°.

13<sup>2</sup> Same, rev. ed. 1897. 176 pp. 27 pl. 4

[Insect enemies of white pine, by F. H. Chittenden, issued as separate from Bulletin no. 22, is the only separate of which we have any record.]

#### Circulara A13.4:

- [No. 1.] Request to educators for cooperation. 1886. 4 pp.\*
- No. 2. To educational men. 1887. (Circ.)

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No. 2. Feb. 17, 1900. No. 3. Mar. 3, 1900. No. 4. Mar. 23, 1900. No. 5. Apr. 9, 1900. No. 6. May 2, 1900.

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Clasuifica-
                             FORESTRY BUREAU—Continued
 tion no.
          Press bulletins—Continued
A13.6:
          No. 7. June 6, 1900.
     81
          No. 8. July 7, 1900.
          No. 8. New York supp., July 7, 1900.
      82
          No. 9. Aug. 11, 1900.
     9
           No. 10. Nov. 15, 1900.
    10
           No. 11. Feb. 7, 1901.
     11
          No. 12. Mar. 7, 1901.
    12
    13
           No. 13. Apr. 8, 1901.
          No. 14. July 8, 1901.
    14
          No. 15. Oct. 30, 1901.
    15
          No. 16. Jan. 10, 1902.
    16
    17
           No. 17. July 16, 1902.
          No. 18. Aug. 12, 1902.
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    19
          No. 19. Aug. 12, 1902.
    20
          No. 20. Sept. 5, 1902.
          No. 21. Sept. 30, 1902.
    21
    22
          No. 22. Sept. 30, 1902.
    23
          No. 23. Nov. 14, 1902.
          No. 24. Damage by recent forest fires. n. d.
    24
          No. 25. Dec. 10, 1902.
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# A14. GARDENS AND GROUNDS DIVISION

'[Merged into Bureau of Plant Industry July 1, 1901, see A19. For historical sketch of Division, see Yearbook, 1897 (A1.10:897), p. 180.]

# A14.1: | Annual reports

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SUPERINTENDENT OF EXPERIMENTAL GARDEN.
                          (In A1.1:862, p. 540.)
       1862 (Saunders).
                          (In Al.1:863, p. 547.)
       1863 (Saunders).
                          (In Al.1:864, p. 605.)
       1864 (Saunders).
       1865 (Saunders).
                          In Al.1:865, p. 13.)
                          In A1.1:866, p. 17.)
       1866 (Saunders).
                          (In A1.1:867, p. 23.)
       1867 (Saunders).
       SUPERINTENDENT OF GARDENS AND GROUNDS.
       1868 (Saunders).
                          (In A1.1:868, p. 118.)
                          (In A1.1:869, p. 79.)
       1869 (Saunders).
                          (In A1.1:870, p. 16.)
       1870 (Saunders).
                          (In A1.1:871, p. 102.)
       1871 (Saunders).
       1872 to 1875, no reports printed.
       1876 (Saunders).
                          (In Al.1:876, p. 61.)
       1877 (Saunders).
                          In A.1.1:877, p. 47.)
       1878 (Saunders).
                          (In A1.1:878, p. 194.)
                          (In A1.1:879, p. 359.)
       1879 (Saunders).
       1880, no report printed.
      1881 and 1882 (Saunders). (In A1.1:881-2, p. 215.)
      1883 (Saunders). (In A1.1:883, p. 181.)
       1884, no report printed.
                          (In A1.1:885, p. 33.)
       1885 (Saunders).
                          (In A1.1:886, p. 687.)
       1886 (Saunders).
                          (In A1.1:887, p. 673.)
       1887 (Saunders).
       1888, no report printed.
                          (In A1.1:889, p. 111.)
       1889 (Saunders).
                                             (Also in A1.1:890, p. 557.)
       1890 (Saunders).
                          [1]+557-596 pp.
890
                                             7 pl.
                                                   (Also in A1.1:891, p. 463.)
891
       1891 (Saunders).
                          [1]+463-484 pp.
                                             (Also in A1.1:892, p. 377.)
                          iii +377–402 pp.
       1892 (Saunders).
892
                                            (Also in Al.1:893, p. 365.)
                          iii + 365 - 388 \text{ pp.}
       1893 (Saunders).
893
                          (In A1.1:894, p. 207.)
       1894 (Saunders).
       1895 (Saunders).
                          (In Al.1:895, p. 189.)
       1896, no report printed.
                          (In A1.1:897, p. 159.)
       1897 (Saunders).
                          (In A1.1:898, p. 143.)
       1898 (Saunders).
                          iii+91-92 pp. (Also in A1.1:899, p. 91.)
899
      1899 (Saunders).
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Classifica- A14. GARDENS AND GROUNDS DIVISION—Continued tion no.

A14.1: | Annual reports—Continued

SUPERINTENDENT OF GARDENS AND GROUNDS—Continued

1900 (Galloway). ii+273-278 pp. (Also in A1.1:900, p. 273.)

1901 (Corbett). [This final report of the division was made through the chief of the Bureau of Plant Industry, forming part of his annual report for 1901. See Al.1:901, p. 81; also Al9.1:901, p. 81.]

**A14.2:** General publications

None issued.

A14.3: Bulletins

900

None issued.

A14.4: Circulars

No. 1. An experiment in tea culture; report on tea gardens of Dr. Charles U. Shepard, Pinehurst, S. C., by William Saunders. [1897.] n. t. p. 10 pp.

# A15. IRRIGATION INQUIRY OFFICE.

[Discontinued June 30, 1896.]

# Al5.1: Annual reports

Special Agent in Charge of Artesian and Underflow Investigations and of Irrigation Inquiry.

890 | 1890 (Hinton). [1]+471-488 pp. map. (Also in A1.1:890, p. 471.)

891 | 1891 (Hinton). [1]+439-450 pp. map. (Also in A1.1:891, p. 439.)

1892, no report printed.

SPECIAL AGENT IN CHARGE OF IRRIGATION INQUIRY.

1893 (Irish). (In A1.1:893, p. 593.)

CHIEF OF OFFICE OF IRRIGATION INQUIRY.

1894 (Irish). (In A1.1:894, p. 219.) 1895 (Irish). (In A1.1:895, p. 183.)

# A15.2: General publications

P94 2

[Publications which originated in this Office, but which were published in a numbered series of the Secretary's Office, or some other division of the Department, are entered only where such numbering places them, with references under the proper headings in the index to this work. Publications of the Office issued only as Congressional documents are noted in chronological order in the Appendix to this work.]

Ar7 Artesian wells. Report on preliminary investigation to determine proper location of artesian wells within area of ninety-seventh meridian, and east of foothills of Rocky Mountains; [by Richard J. Hinton, and others]. 1890. 398 pp. 15 pl.

Same, 51st Cong., 1st sess., S. ex. doc. 222; serial no. 2689.

Ir71 Irrigation in U.S.; by Richard J. Hinton. 1887. 240 pp. 9 pl. Same, 49th Cong., 2d sess., S. mis. doc. 15; serial no. 2450.

lr7<sup>2</sup> Irrigation. [Report on irrigation.] (52d Cong., 1st sess., S. ex. doc. 41, in 4 parts.) 1893. (No serial title-page; 4 pts. bound in one vol.) Contents:

Pt. 1. Irrigation and cultivation of soil thereby, with physical data, conditions, and progress within U. S. for 1891; by Richard J. Hinton. 1893. 459 pp. 52 pl. Pt. 2. Artesian and underflow investigation; Final report of Chief Engineer Edwin

S. Nettleton. 1893. 116 pp. 29 pl.

Pt. 3. Final geological reports of artesian and underflow investigation between 97th meridian of longitude and foothills of Rocky Mountains; by Robert Hay. 1893. 209 pp. 41 pl.

209 pp. 41 pl.
Pt. 4. Final report on mid-plains division of artesian and underflow investigation between 97th meridian of longitude west of Greenwich and foothills of Rocky Mountains, by J. W. Gregory; and special report on certain artesian conditions in State of South Dakota; by Fred F. B. Coffin. 1893. 61 pp. 8 pl.

Progress report on irrigation in U.S. for 1890, by R. J. Hinton. Pt. 1. 1891. 337 pp. 5 pl.

Same, pt. 2. Progress report of artesian and underflow investigation between ninety-seventh degree of west longitude and foothills of Rocky Mountains; by E. S. Nettleton. 1891. 14 pp. 12 maps (called appendixes).

Same, 51st Cong., 2d sess., S. ex. doc. 53, pts. 1 and 2; serial no. 2818.

Classification no A15. IRRIGATION INQUIRY OFFICE—Continued

# A15.3: | Bulletins

No. 1. Abstract of laws of the several States and Territories on irrigation and water rights; compiled by O. A. Critchett. 1893. 180 pp.

# A15.4: | Circulars

None issued.

# A16. LABOR EMPLOYMENT BOARD

# A16.1: | Annual reports

None issued.

# A16.2: General publications

In7 Instructions to applicants for appointment to position of mere unskilled laborer in U.S. Department of Agriculture, at Washington, D.C., July 18, 1902. n. t. p. 3 pp.

R26 Regulations governing appointment to position of mere unskilled laborer under Department of Agriculture in D. C., July 2, 1902. n. t. p. 4 pp.

## A16.3: | Bulietins

None issued.

## A16.4: | Circulars

None issued.

## A17. LIBRARY

[For historical sketch of Library see Yearbook, 1897 (A1.10:897), p. 220.]

# A17.1: | Annual reports

1894 (Cutter) (In A1.1: 894, p. 203.)

1895 to 1897, no reports printed.

1898 (Cutter) (In A1.1: 898, p. 167.)

899 | 1899 (Cutter) iii+213-214 pp. (Also in A1.1:899, p. 213.)

900 | 1900 (Cutter) ii + 111-112 pp. (Also in A1.1:900, p. 111.)

901 | 1901 (Clark) iii+171-173 pp. (Also in A1.1:901, p. 171.)

902 | 1902 (Clark) ii+235-239 pp. (Also in A1.1:902, p. 235.)

## **A17.2:** General publications

[The Library issues printed Catalogue cards (author and subject analyticals) for the publications of the Department, its endeavor being to fully catalogue such publications. These cards are supplied to libraries by the Department.]

## A17.3: Bulietins

No. 1. Accessions to Department Library, [Jan.-Mar.] 1894. Apr., 1894. n. t. p. 12 pp. 4°

No. 2 Periodicals and society publications, currently [1894] received at Department Library, June, 1894. n. t. p. 8 pp. 4°

No. 3. Accessions to Department Library, April-June, 1894. Aug., 1894. n. t. p. 11 pp. 4°

4 No. 4. Accessions to Department Library, July-Oct., 1894. Dec., 1894. n. t. p. 9 pp. 4°

5 No. 5. Accessions to Department Library, Nov.-Dec., 1894. Feb., 1895. n. t. p. 7 pp. 4°

6 No. 6. Accessions to Department Library, Jan.-Mar., 1895. May, 1895. n t. p. 12 pp. 4°

7 No. 7. Accessions to Department Library, Apr.-June, 1895. Aug., 1895. n. t. p. 11 pp. 4°

8 No. 8. Accessions to Department Library, July-Sept., 1895. Nov., 1895. n. t. p. 11 pp. 4°

9 No. 9. List of publications of U. S. Department of Agriculture from 1841 to June 30, 1895, inclusive; [compiled by Adelaide R. Hasse]. 1896. 76 pp.

Classifica-

# A17. LIBRARY—Continued

17.3:	Bulletins—Continued
10	No. 10. Accessions to Department Library, OctDec., 1895. Feb., 1896. n. t. p. 14 pp. 4°
11	No. 11. Accessions to Department Library, JanMar., 1896. May, 1896. n. t. p. 15 pp. 4°
12	No. 12. Accessions to Department Library, AprJune, 1896. Aug., 1896. n. t. p. 14 pp. 4°
13	No. 13. Accessions to Department Library, July-Sept., 1896. Oct., 1896. n. t. p. 10 pp. 4°
14	No. 14. Accessions to Department Library, OctDec., 1896. Feb., 1897. n. t. p. 13 pp. 4°
15	No. 15. Accessions to Department Library, JanMar., 1897. May, 1897. n. t. p. 15 pp. 4°
16	No. 16. References to literature of sugar beet exclusive of works in foreign languages; compiled by Claribel R. Barnett. June, 1897. n. t. p. 9 pp. 4°
1.0	[Title and contents supplied for binding nos. 1-8, 10-16.]
17	No. 17. Accessions to Department Library, AprJune, 1897. Aug. 1897. n. t. p. 26 leaves.
18	No. 18. Bibliography of poultry; compiled by Emma B. Hawks. Oct. 1897. n. t. p. 32 leaves.
19	No. 19. Accessions to Department Library, July-Sept., 1897. Nov., 1897. n. t. p. 25 leaves.
20	No. 20. Reference list of publications relating to edible and poisonous mushrooms; compiled by Josephine A. Clark. Jan. 1898. 16 pp.
21	No. 21. Accessions to Department Library, OctDec., 1897. Feb., 1898. n. t. p. 23 leaves.
` 22	No. 22. Accessions to Department Library, JanMar., 1898. Apr., 1898. n. t. p. 38 pp.
23	No. 23. Accessions to Department Library, AprJune, 1898. Aug., 1898. n. t. p. 25 pp.
24	No. 24. List of publications relating to forestry in Department Library. 1898. 93 leaves.
25	No. 25. Accessions to Department Library, July-Sept., 1898. Nov., 1898. n. t. p. 16 leaves.
26	No. 26. Accessions to Department Library, OctDec., 1898. Feb., 1899. n. t. p. 24 leaves.
27	No. 27. Accessions to Department Library, JanMar., 1899. Apr., 1899. n. t. p. 20 leaves.
28	No. 28. Accessions to Department Library, AprJune, 1899. July, 1899. n. t. p. 23 leaves.
29	No. 29. Accessions to Department Library, July-Sept., 1899. Nov., 1899. n. t. p. 21 leaves.
30	
31	
32	No. 32. Accessions to Department Library, AprJune, 1900. Aug., 1900. n. t. p. 23 leaves.
33	No. 33. Accessions to Department Library, July-Sept., 1900. Nov., 1900. n. t. p. 19 leaves.
34	No. 34. Accessions to Department Library, OctDec., 1900. Feb., 1901.
35	The state of the second
36	n. t. p. 29 leaves. No. 36. Accessions to Department Library, Apr.—June, 1901. 1901. n. t. p.
37	No. 37. Catalogue of periodicals and other serial publications, exclusive of U.S. Government publications, in Library of Department of Agriculture. 1901. 362 pp.
38	No. 38. Accessions to Department Library, July-Sept., 1901. n. t. p.
39	35 pp. No. 39. Accessions to Department Library, Oct. Dec., 1901. n. t. p. 24 pp.

Tadies				
Classifica- tion no.	A17. LIBRARY—Continued			
A17.3:	Bulletins—Continued			
40 41	No. 40. Accessions to Department Library, JanMar., 1902. 1902. 67 pp. No. 41. List of references to publications relating to irrigation and land drainage; compiled by Ellen A. Hedrick. 1902. 181 pp.			
42	No. 42. Catalogue of publications relating to botany in library of U.S.			
43	Department of Agriculture. 1902. 242 pp.  No. 43. Accessions to Department Library, April-June, 1902. 1902.			
<b>√ 44</b>	37 pp. No. 44. Accessions to Department Library, July-Sept., 1902. 1902. 51 pp.			
A17.4:	Circulars			
	None issued.			
	List of duplicates offered as exchanges			
. 2	1. Dec., 1901. n. t. p. 3 pp. 2. Jan., 1902. n. t. p. 4 pp.			
	A18. MICROSCOPY DIVISION			
	[Division organized in 1885; abolished in 1895.]			
A18.1:	Annual reports			
889 890 891 892 893 <b>A18.2:</b> F44 M58	Microscopic Investigations: Report of Microscopist 1872 (Taylor). (In Al.1.872, p. 188.) 1873 (Taylor). (In Al.1.873, p. 183.) 1874 (Taylor). (In Al.1.874, p. 161.) 1875 (Taylor). (In Al.1.875, p. 187.) 1876 (Taylor). (In Al.1.876, p. 74.) 1877 to 1884, no reports printed. Report of Microscopist (Microscopy Division) 1885 (Taylor). (In Al.1.885, p. 89.) 1886 (Taylor). (In Al.1.885, p. 89.) 1886 (Taylor). (In Al.1.887, p. 617.) 1888 (Taylor). (In Al.1.888, p. 559.) 1889 (Taylor). (In Al.1.888, p. 559.) 1890 (Taylor), [1]+191-200 pp. 13 pl. (Also in Al.1.890, p. 361.) 1891 (Taylor), [1]+361-374 pp. 11 pl. (Also in Al.1.890, p. 361.) 1892 (Taylor), [1]+281-292 pp. 9 pl. (Also in Al.1.891, p. 405.) 1892 (Taylor), [1]+281-292 pp. 9 pl. (Also in Al.1.892, p. 281.) CHIEF OF DIVISION OF MICROSCOPY 1893 (Taylor), iii+297-302 pp. 7 pl. (Also in Al.1.893, p. 297.) 1894 (Taylor). (In Al.1.894, p. 195.)  General publications  Fibrine and bacteria; by T. Taylor. n. d. 5 pp.* Microtome. Letter of C. P. Lyman to Dr. Thomas Taylor on the work of his microtome. Sept. 30, 1881.*			
N16	Naphthaline as an insecticide, etc., its effect on seeds, plants, and animals; by T. Taylor. 1883. 6 pp.			
A18.3:	Bulletins			
	None issued.			
A18.4:	Circulars			
	None issued.			
	Food products			
11	No. 1. Twelve edible mushrooms of U. S., with directions for their identification and their preparation as food; by Thomas Taylor. (Reprinted from report Commissioner of Agriculture for 1885.) 1893. 20 pp. 1 pl.  Same, [reprinted with addition of article on mushroom industry]			
12	Same, [reprinted with addition of article on mushroom industry (Falconer).] 1894. 23 pp. 1 pl.			

\* No copy found.

Clasification no.

# A18. MICROSCOPY DIVISION—Continued

# A18.5: | Food products—Continued

No. 2. Eight edible and twelve poisonous mushrooms of U.S., with directions for culture and culinary preparation of the edible species; by Thomas Taylor. (Reprinted from report of Secretary of Agriculture, 1890, pp. 366-373, with appendix: List of edible fungi of U.S.) 1891. 16 pp. 5 pl.

2<sup>2</sup> Same, 2d rev. ed. [2d ed. rev.]. 1893. 23 pp. 6 pl.

No. 3. Improved methods of distinguishing between pure and fictitious lard [and] Four edible mushrooms of U. S.; by Thomas Taylor. (Reprinted, with revision, from report of Secretary of Agriculture for 1891.) 1893. 22 pp. 6 pl.

## A19. PLANT INDUSTRY BUREAU

[The Bureau of Plant Industry was organized July 1, 1901, by the consolidation of the following divisions of the Department, viz: Agrostology Division, see A3; Botany Division, see A6; Gardens and Grounds Division, see A14; Pomology Division, see A20; Seed and Plant Introduction, see A23; Seed Division, see A24; Vegetable Physiology and Pathology Division, see A28. Also Arlington Experimental Farm and Tea Investigations and Experiments Office.]

# A19.1: | Annual reports

901 | 1901 (Galloway), iii+43-94 pp. (Also in A1.1:901, p. 43.) 902 | 1902 (Galloway), iv+47-108 pp. (Also in A1.1:902, p. 108.)

# A19.2: | General publications

F74 Forage crop seed. Plan of distributing forage crop seed and cultural directions for crops distributed. [1902.] n. t. p. 8 pp. 16°

Publications. List of publications of Office of Grass and Forage Plant Investigations and Division of Agrostology; by W. J. Spillman. 1902. 12 pp.

Tobacco seed. Plan of distributing tobacco seed and cultural directions for different types of tobacco distributed. [1902.] n. t. p. 15 pp. 16°

# A19.3: | Bulletins (large 8°)

**T55** 

7

No. 1. Relation of lime and magnesia to plant growth; 1, Liming of soils from physiological standpoint, by Oscar Loew; 2, Experimental study of relation of lime and magnesia to plant growth, by D. W. May. 1901. 53 pp. 3 pl.

1<sup>2</sup> Same, corrected. 1901. 53 pp. 3 pl.

No. 2. Spermatogenesis and fecundation of zamia; by Herbert J. Webber. 1901. 100 pp. 7 pl.

3 No. 3. Macaroni wheats; by Mark Alfred Carleton. 1901. 62 pp. 11 pl.

4 No. 4. Range improvement in Arizona; by David Griffiths. 1901. 31 pp. 6 pl.

No. 5. Seeds and plants imported, inventory no. 9, numbers 4351-5500. 1902. 79 pp.

See for inventories 1-8, A7.6:1-8.

No. 6. List of American varieties of peppers; by W. W. Tracy, jr. 1909, 19 pp.

No. 7. Algerian durum wheats, classified list, with descriptions; by Carl S. Scofield. 1902. 48 pp. 18 pl.

No. 8. Collection of economic and other fungi prepared for distribution; by Flora W. Patterson. 1902. 31 pp.

9 No. 9. North American species of Spartina; by Elmer D. Merrill. 1902.

No. 10. Records of seed distribution and cooperative experiments with grasses and forage plants; by F. Lamson-Scribner. 1902. 23 pp.

No. 11. Johnson grass, report of investigations made during season of 1901; by Carleton R. Ball. 1902. 24 pp. 1 pl.

No. 12. Stock ranges of northwestern California, notes on grasses and forage plants and range conditions; by Joseph Burtt Davy. 1902. 81 pp. 8 pl. 3 maps.

Classification no.  A19. PLANT INDUSTRY BUREAU—Continued  No. 13. Experiments in range improvement in Central Texas; by H. L. Bentley. 1902. 72 pp. 2 pl.  No. 14. Decay of timber and methods of preventing it; by Hermann von Schrenk. 1902. 96 pp. 18 pl.  No. 15. Forage conditions on northern border of Great Basin, being report upon investigations made during July and August, 1901, in region between Winnemucca, Nev., and Ontario, Oregon; by David Griffiths. 1902. 60 pp. 16 pl. 1 map.  No. 16. Preliminary study of germination of spores of Agaricus campestris and other basidiomycetous fungi; by Margaret C. Ferguson. 1902. 43 pp. 3 pl.  No. 17. Some diseases of the cowpea; 1, Wilt disease and its control, by W. A. Orton; 2, Cowpea resistant to root-knot, by Herbert J. Webber and W. A. Orton. 1902. 38 pp. 6 pl.  No. 18. Observations on mosaic disease of tobacco; by Albert F. Woods. May 15, 1902. 24 pp. 6 pl.  No. 19. Kentucky bluegrass seed, harvesting, curing, and cleaning; by A. J. Pieters and Edgar Brown. 1902. 19 pp. 6 pl.  No. 20. Manufacture of semolina and macaroni; by Robert P. Skinner. 1902. 31 pp. 5 pl.  No. 21. Not issued 1902.  No. 22. Injurious effects of premature pollination, with general notes on artificial pollination and setting of fruit without pollination; by
<ul> <li>Bulletins—Continued</li> <li>No. 13. Experiments in range improvement in Central Texas; by H. L. Bentley. 1902. 72 pp. 2 pl.</li> <li>No. 14. Decay of timber and methods of preventing it; by Hermann von Schrenk. 1902. 96 pp. 18 pl.</li> <li>No. 15. Forage conditions on northern border of Great Basin, being report upon investigations made during July and August, 1901, in region between Winnemucca, Nev., and Ontario, Oregon; by David Griffiths. 1902. 60 pp. 16 pl. 1 map.</li> <li>No. 16. Preliminary study of germination of spores of Agaricus campestris and other basidiomycetous fungi; by Margaret C. Ferguson. 1902. 43 pp. 3 pl.</li> <li>No. 17. Some diseases of the cowpea; 1, Wilt disease and its control, by W. A. Orton; 2, Cowpea resistant to root-knot, by Herbert J. Webber and W. A. Orton. 1902. 38 pp. 6 pl.</li> <li>No. 18. Observations on mosaic disease of tobacco; by Albert F. Woods. May 15, 1902. 24 pp. 6 pl.</li> <li>No. 19. Kentucky bluegrass seed, harvesting, curing, and cleaning; by A. J. Pieters and Edgar Brown. 1902. 19 pp. 6 pl.</li> <li>No. 20. Manufacture of semolina and macaroni; by Robert P. Skinner. 1902. 31 pp. 5 pl.</li> <li>No. 21. Not issued 1902.</li> <li>No. 22. Injurious effects of premature pollination, with general notes on</li> </ul>
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<ul> <li>No. 15. Forage conditions on northern border of Great Basin, being report upon investigations made during July and August, 1901, in region between Winnemucca, Nev., and Ontario, Oregon; by David Griffiths. 1902. 60 pp. 16 pl. 1 map.</li> <li>No. 16. Preliminary study of germination of spores of Agaricus campestris and other basidiomycetous fungi; by Margaret C. Ferguson. 1902. 43 pp. 3 pl.</li> <li>No. 17. Some diseases of the cowpea; 1, Wilt disease and its control, by W. A. Orton; 2, Cowpea resistant to root-knot, by Herbert J. Webber and W. A. Orton. 1902. 38 pp. 6 pl.</li> <li>No. 18. Observations on mosaic disease of tobacco; by Albert F. Woods. May 15, 1902. 24 pp. 6 pl.</li> <li>No. 19. Kentucky bluegrass seed, harvesting, curing, and cleaning; by A. J. Pieters and Edgar Brown. 1902. 19 pp. 6 pl.</li> <li>No. 20. Manufacture of semolina and macaroni; by Robert P. Skinner. 1902. 31 pp. 5 pl.</li> <li>No. 21. Not issued 1902.</li> <li>No. 22. Injurious effects of premature pollination, with general notes on</li> </ul>
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No. 22. Injurious effects of premature pollination, with general notes on
Charles P. Hartley. 1902. 48 pp. 4 pl.
No. 23. Berseem, the great forage and soiling crop of Nile Valley; by David G. Fairchild. 1902. 20 pp. 14 pl.
24 No. 24. Manufacture and preservation of unfermented grape must; by George C. Husmann. 1902. 19 pp. 1 pl.
No. 25. Not issued 1902; see for advance issue A19.3a:R31.  No. 26. Spanish almonds and their introduction into America; by David G. Fairchild. 1902. 16 pp. 8 pl.  Nos. 27-29, not issued 1902.
No. 30. Budding the pecan; by George W. Oliver. 1902. 20 pp. 8 pl. No. 31. Cultivated forage crops of Northwestern States; by A. S. Hitchcock. 1902. 28 pp. 7 pl.
A19.3a: Bulletins (separates)
R31 Rescue grass. Seeds of rescue grass and chess; by F. H. Hillman. 1902.  [1]+4 pp.  [Advance issue of portion of Bulletin no. 25.]
A19.4: Circulars None issued.
A19.5: Novelties and specialties, Distribution of (16°)
1 Section 1. n. t. p. 4 pp.
2 Section 2. n. t. p. 4 pp. 3 Section 3. n. t. p. 4 pp. 4 Section 4. n. t. p. 4 pp.
4   Section 4. n. t. p. 4 pp. 5   Section 5. n. t. p. 4 pp.
5a Section $5a$ . n. t. p. 4 pp.
6 Section 6. n. t. p. 4 pp. 6a Section 6a. n. t. p. 4 pp.
A26. POMOLOGY DIVISION

# A20. POMOLOGY DIVISION

[Merged into Bureau of Plant Industry, July 1, 1901, see A19. For historical sketch of Division, see Yearbook, 1897 (A1.10:897), p. 111.]

A20.1:	Annual reports			
887	REPORT OF POMOLOGIST  1886 (Van Deman). (In A1.1:886, p. 259.)  1887 (Van Deman), [1]+627-652 pp. 9 pl.  1888 (Van Deman). (In A1.1:888, p. 565.)	(Also in A1.1:887, p. 627.)		

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(lassifica-
                   A20. POMOLOGY DIVISION—Continued
tion no.
A20.1:
         Annual reports—Continued
         REPORT OF POMOLOGIST—Continued
         1889 (Van Deman), [1]+433-452 pp. 10 pl. (Also in A1.1:889, p. 433.)
  889
         1890 (Van Deman), [1]+409-424 pp. 9 pl. (Also in A1.1:890, p. 409.)
  890
         1891 (Van Deman), [1]+379-404 pp. 11 pl. [Plate 11 is erroneously numbered "9."] (Also in A1.1:891, p. 379.)
  891
         1892 (Van Deman), [1]+247-280 pp.
  892
                                                 13 pl. (Also in A1.1:892, p. 247.)
         REPORT OF ASSISTANT POMOLOGIST
  893
         1893 (Taylor), iii +277-296 pp. 9 pl. (Also in Al.1:893, p. 277.)
         REPORT OF POMOLOGIST
                                       (Exec. report in A1.1:894, p. 205.)
  894
         1894 (Heiges), 62 pp. 4 pl.
         1895 (Heiges), 64 pp. 6 pl. (Exec. report in A1.1:895, p. 191.)
  895
                                          (Also in A1.1:896, p. 109.)
  896
         1896 (Heiges), iii + 109 - 114 pp.
  897
         1897 (Brackett), ii+147-151 pp. (Also in A1.1:897, p. 147.)
         1898 (Brackett), iii+127-131 pp. (Also in A1.1:898, p. 127.)
   898
                                          (Also in A1.1:899, p. 85.)
   899
         1899 (Brackett), iii + 85-90 pp.
         REPORT OF ACTING POMOLOGIST
   900
         1900 (Taylor), ii+59-63 pp. (Also in A1.1:900, p. 59.)
         1901 (Brackett). [This final report of the Division was made through the
   901
                chief of Bureau of Plant Industry, forming part of his annual report
                for 1901. (See A1.1:901, p. 75; also, A19.1:901, p. 75.)]
A20.2:
         General publications
            [Publications which originated in this Division, but which were published in a num-
                bered series of the Secretary's Office or some other division of the Department.
                are entered only where such numbering places them, with references under the
                proper headings in the index to this work. Publications of the Division issued
                only as Congressional documents are noted in chronological order in the Appen-
                dix to this work.]
   N95
         Nut culture in U.S., embracing native and introduced species; [com-
                piled by W. P. Corsa]. 1896. 144 pp. 16 pl. large 8°
A20.3:
         Bulletins
     11
         No. 1. Report on condition of tropical and semitropical fruits in United
                States in 1887, prepared under direction of Commissioner of Agri-
                culture; Tropical and semitropical fruits in Florida and Gulf States,
                by P. W. Reasoner; Tropical and semitropical fruits of California,
                Arizona, and New Mexico, by W. G. Klee. 1888. 149 pp. 3 pl.
     12
            Same, [2d ed.]. 1891. 149 pp.
         No. 2. Adaptation of Russian and other fruits to extreme northern por-
     2
                tions of United States; [by T. T. Lyon]. 1888. 64 pp.
   √ 3
          No. 3. Classification and generic synopsis of wild grapes of North America;
                by T. V. Munson. 1890. 14 pp.
          No. 4. Relative merit of various stocks for orange, with notes on mal di
     4
                goma and mutual influence of stock and scion; [compiled by William R. King]. 1891. 21 pp.
     5
          No. 5. Fig culture; edible figs, their culture and curing, by Gustav Eisen;
                Fig culture in Gulf States, by Frank S. Earle. 1897.
     6
          No. 6. Catalogue of fruits recommended for cultivation in various sections
                of U.S., by American Pomological Society; revised by committee
                of society, T. T. Lyon, chairman. 1897. 39 pp.
     7
          No. 7. Fruit industry and substitution of domestic for foreign-grown
                fruits, with historical and descriptive notes on ten varieties of
                apple suitable for export trade; by William A. Taylor. 1898.
                vii + 305 - 362 pp. 5 pl.
             [Reprint from Yearbook for 1897.]
     8
          No. 8. Revised catalogue of fruits recommended for cultivation in various
                sections of U.S. and British provinces, by American Pomological
                Society; revised by committee of society, W. H. Ragan, chairman.
                1899. 63 pp. 1 pl.
     8
          No. 9. Fig, its history, culture, and curing, with descriptive catalogue of
                known varieties of figs; by Gustav Eisen. 1901. 317 pp. 16 pl.
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Lake. 1901, 23 pp. 10 pl.

No. 10. Prunes and prune culture in Western Europe, with special refer-

ence to existing conditions in Pacific Northwest; by Edward R.

10

# Tables Classifica-A20. POMOLOGY DIVISION—Continued tion no. Circulars A20.4: [Reprinted from Report of Pomologist for 1894.] No. 1. Nut culture; by H. M. Engle. August 18, 1896. n. t. p. 4 pp. 21 No. 2. Prune culture in Pacific Northwest; by E. R. Lake. n. d. n. t. p. 7 pp. $2^{2}$ Same, revised Nov. 20, 1897. n. t. p. 7 pp. No. 3. Notes on peach culture; by J. H. Hale. n. d. n. t. p. 10 pp. 31 32 Same, revised Nov. 20, 1897. [Erroneously numbered 40.] n. t. p. 38 Same [with correct number.] n. t. p. 8 pp. A21. PUBLICATIONS DIVISION [Formerly Division of Records and Editing.] A21.1: | Annual reports

#### REPORT OF EDITOR 1868 (Dodge). (In Al.1:868, p. 190.) (In A1.1:869, p. 157.) 1869 (Dodge). 1870 (Dodge). (In A1.1:870, p. 153.) 1871 (Dodge). (In Al.1:871, p. 123.) 1872 to 1888 no reports printed. 1889 Report of Secretary relative to establishment and work of the division. 3 pp. (Also in A1.1:889, p. 10.) REPORT OF CHIEF OF DIVISION OF RECORDS AND EDITING 1890 (Hill), [1]+437-447 pp. 890 (Also in A1.1:890, p. 437.) 1891 (Hill), [1]+489-498 pp. 1892 (Hill), [1]+497-508 pp. (Also in A1.1:891, p. 489.) 891 892 (Also in A1.1:892, p. 497.) 1893 (Hill), lii+395-408 pp. 893 (Also in A1.1:893, p. 395.) 894 1894 (Hill), iii+171-184 pp. (Also in Al.1:894, p. 171.) REPORT OF CHIEF OF DIVISION OF PUBLICATIONS 1895 (Hill), iii+221-244 pp. (Also in A1.1:895, p. 221.) 895 896 1896 (Hill), iv+29-76 pp. (Also in A1.1:896, p. 29). 1897 (Hill), iv+25-91 pp. 897 (Also in Al.1:897, p. 25). 1898 (Hill), iv+43-86 pp. 898 (Also in A1.1:898, p. 43). REPORT OF EDITOR 899 (Also in A1.1:899, p. 161.) 1899 (Hill), iv+161-211 pp. 1900 (Hill), iii+113-164 pp. 900 (Also in A1.1:900, p. 113.) 1901 (Hill), iii + 271 - 324 pp. 901 (Also in A1.1:901, p. 271.) 902 1902 (Hill), iii+317-376 pp. (Also in A1.1:902, p. 317.) A21.2: General publications Agriculture Department. Department of Agriculture and its work; by Ag8

At8 Atlanta, Ga. Organization of U. S. Department of Agriculture and list of its exhibits at Cotton States and International Exposition, Atlanta, Ga., Sept. 8, 1895, to Jan. 1, 1896. 1895. 14 pp. 4 pl. 16°

Button making: Percent on recently patential process of button making:

B97 Butter making. Report on recently patented process of butter making; by D. E. Salmon. Nov. 20, 1897. n. t. p. 3 pp.

C49 Circulars issued by the various divisions of the Department of Agriculture to Nov. 1, 1897. n. p. n. d. 11 pp.

C49<sup>2</sup> | Circulars of information [issued by the various divisions of Agriculture Department]. n. d. n. t. p. 6 pp.
F22<sup>1</sup> | Farmers' bulletins [available for distribution]. July 10, 1896. n. t. p.

F22 Farmers' bulletins [available for distribution]. July 10, 1896. n. t. p. 4 pp.
F22 Same. Oct. 7, 1896. n. t. p. 4 pp.

F22 Same. Oct. 7, 1890. n. t. p. 4 pp.
F22 Same. Feb. 1, 1897. n. t. p. 4 pp. 4°
F22 Same. Apr. 1, 1897. n. t. p. 3+[1] pp. 4°
F22 Same. Lune 1, 1897. n. t. p. 4 pp. 4°

F22<sup>5</sup> Same. June 1, 1897. n. t. p. 4 pp. 4°
P96<sup>1</sup> Publication work as affected by law of Jan. 12, 1895. Jan. 18, 1897.
n. t. p. 4 pp.

P96<sup>2</sup> Publications. Notes regarding Department publications. Sept. 19, 1896. (Circ.)

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(Taxsifica-
                 A21. PUBLICATIONS DIVISION—Continued
tion no.
A21.2: General publications—Continued
         Publications available. Special list of publications available Apr. 10, 1899,
               for distribution to correspondents and others rendering service to
               the Department. n. d. n. t. p. '10 pp.
         Reprints. [List of] Congressional reprints for sale by Supt. of Documents.
  R29
               April 30, 1897. n. t. p. 2 pp.
         Bulletins
A21.3:
     11
         [No. 1.] Index to annual reports of U. S. Department of Agriculture,
               1837 to 1893; [compiled by George F. Thompson]. 1896. 252 pp.
     12
         No. 1. Same, [reprint, 1899]. 252 pp.
         No. 2. Synoptical index of reports of Statistician, 1863 to 1894; by Geo. F.
     2
               Thompson. 1897. 258 pp.
         No. 3. Historical sketch of U. S. Department of Agriculture, its objects
     31
               and present organization; compiled by Charles H. Greathouse.
               1898. 74 pp. 3 pl.
            Same. Revised edition. 1898. 74 pp. 3 pl.
     32
         No. 4. Index to authors, with titles of their publications, in documents
     4
               of U.S. Department of Agriculture, 1841 to 1897; by Geo. F.
               Thompson. 1898. 303 pp.
     5
         No. 5. Index to literature relating to animal industry in publications of
               Department of Agriculture, 1837 to 1898; by George Fayette
               Thompson. 1900. 676 pp.
         No. 6. List by titles of publications of U.S. Department of Agriculture.
               from 1840 to June, 1901, inclusive; compiled and compared with
               originals by R. B. Handy and Minna A. Cannon. 1902. 216 pp.
         No. 7. Index to yearbooks of U.S. Department of Agriculture, 1894–1900;
               prepared by Charles H. Greathouse. 1902. 196 pp.
A21.4:
         Circulars
         No. 1. Organization of Dept. of Agriculture, 1901–1902. Oct. 23, 1901.
               n. t. p. 20 pp.
A21.5: List of bulletins and circulars available for free distribu-
           tion. [Publication] no. 247.
         Corrected to Nov. 1, 1897. 15 pp.
         [Revised.] Corrected to Oct. 1, 1898. 18 pp.
         3d ed. Corrected to June 1, 1899.
         4th ed. Corrected to July 1, 1899.
5th ed. Corrected to Apr. 1, 1900.
                                             20 pp.
     5
                                             21 pp.
         6th ed. Corrected to Oct. 15, 1900.
                                             24 pp.
         7th ed. Corrected to Jan. 1, 1902.
                                             24 pp.
 A21.6:
         Monthly list of publications
            [Note.—Issued as a one-page circular of various sizes up to March, 1896, when it
               became a pamphlet of from 3 to 8 pages, without title page, in which form it is
               still issued.]
    892
         1892.
                Jan.-Dec.
    893
         1893.
                Jan.-Dec.
    894
         1894.
                Jan.-Dec.
    895
         1895.
                Jan.-Dec.
    896
                            [2d ed. of Nov., Jan., and Feb.]
         1896.
                Jan.-Dec.
    897
         1897.
                Jan.-Dec.
    898
         1898.
                            [2d ed. of Aug. and Sept.]
                Jan.-Dec.
    899
          1899.
                Jan.-Dec.
    900
          1900.
                Jan.-Dec.
    901
          1901.
                Jan.-Dec.
    902
          1902.
                Jan.-Dec.
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101

[Synoptical notices of publications which are to appear. Distributed in large num-

A21.7:

Press notices

bers to the press for copy.]

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Tables
Classifica-
                   A21. PUBLICATIONS DIVISION—Continued
 tion no.
A21.8: |
          [Price list of ] publications for sale by Superintendent of
             Documents. [Publication no. 179.]
      11
           [1st ed.] Feb. 19, 1896. 15 pp.
              Same, supp. Aug. 31, 1896. [Erroneously called "Circular" 179.]
      12
           [2d ed.] Oct. 1, 1896. n. t. p. 16 pp.
           [3d ed.] Corrected to Oct. 1, 1897. n. p. n. d. 28 pp.
           [4th ed.] Corrected to July 1, 1898. n. p. n. d. 28 pp.
          5th ed. Corrected to Feb. 1, 1899. n. p. n. d.
                                                           33 pp.
          6th ed. Corrected to Feb. 1, 1900. n. p. n. d.
                                                           37 pp.
           7th ed. Corrected to July 1, 1900.
                                               n. p. n. d.
          8th ed. Corrected to Aug. 1, 1901. n. p. n. d.
                                                           40 pp.
         9th ed. Corrected to Aug. 1, 1902. 1902. 45 pp.
             A22. PUBLIC-ROAD INQUIRIES OFFICE
[Formerly Office of Road Inquiry. For historical sketch of the Office, see Yearbook, 1897 (A1.10:897).
                                      p. 175.]
A22.1: |
          Annual reports
           SPECIAL AGENT AND ENGINEER FOR ROAD INQUIRY
          1893 (Stone), iii+585-592 pp. (Also in A1.1:893, p. 585.)
    893
          1894 (Stone). (In A1.1:894, p. 217.)
          1895 (Stone). (In A1.1:895, p. 195.)
           1896 (Stone), iii+145-149 pp. (Also in Al.1:896, p. 145.)
    896
           DIRECTOR OF OFFICE OF ROAD INQUIRY
          1897 (Stone), iii + 173 - 175 pp. (Also in A1.1:897, p. 173.)
    897
           1898 (Dodge), iii+159-162 pp. (Also in A1.1:898, p. 159.)
    898
           DIRECTOR OF OFFICE OF PUBLIC ROAD INQUIRIES
          1899 (Stone), iii+155-160 pp. (Also in A1.1:899, p. 155.)
    899
          1900 (Dodge), ii + 279-291 pp. (Also in A1.1:900, p. 279.)
    900
           REPORT OF OFFICE OF PUBLIC ROAD INQUIRIES
    901
           1901 (Dodge), iii+235-252 pp. (Also in A1.1:901, p. 235.)
    902
          1902 (Dodge), iii+305-316 pp.
                                           (Also in A1.1:902, p. 305.)
A22.2:
           General publications
             [Publications which originated in this Office, but were published in a numbered
                 series of the Secretary's office, or some other division of the Department, are
                 entered only where such numbering places them, with references under the
                 proper headings in the index to this work. Publications of the office issued only
                 as Congressional documents are noted in chronological order in the Appendix to
                 this work.]
   Ag8<sup>1</sup>
           Agricultural colleges. [Letter regarding cooperation of Road Inquiry Office
                 with agricultural colleges and experiment stations in disseminating
                 information upon best methods of road-making; by Roy Stone.]
                 Dec. 1, 1896. n. t. p. 3 pp.
             Same, [reprint. 1897.] n. t. p. 3 pp.
   Ag8<sup>2</sup>
          Buffalo, N. Y. [Letter of invitation inclosing call for an International
   B86
                 Good Roads Congress, to be held at Buffalo, N. Y., Sept. 16-21,
                 1901.] Aug. 5, 1901. 2 l.
   C38<sup>1</sup>
          Charlottesville, Va. [Letter of invitation to attend Jefferson Memorial
                 and Interstate Good Roads Convention to be held at Charlottesville,
                 Va., Apr. 2-4, 1902.] Mar. 3, 1902. (Circ.)
   C38<sup>2</sup>
             Same, inclosure, official invitation. [3] pp.
          Chicago, Ill. Letter of invitation to attend National Good Roads and
   C43
                 Irrigation congresses, to be held at Chicago, Ill., Nov. 19–24, 1900.
                 Oct. 25, 1900. (Circ.)
                       Correspondence with Commissioner of Education. June 2,
   Ed8
           Education.
                 1896. (Circ.)
          Laboratory for physical and chemical examination of road materials.
   L11
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Publications of Office of Road Inquiry. [1896.] (Circ.)

Letter to accompany Circular No. 17. June 1, 1896. n. d. (Circ.)

Letter to accompany correspondence and documents. June 12, 1896.

National Road Parliament. [Notice of meeting of National Road Parlia-

n. d.

L56<sup>1</sup>

L56<sup>2</sup>

N21

P96<sup>1</sup>

(Circ.)

ment.] Sept. 15, 1898. (Circ.)

n. d. (Circ.)

#### (lassifica-A22. PUBLIC-BOAD INQUIRIES OFFICE—Continued tion no.

#### A22.2: General publications—Continued

P962 Publications of Office of Road Inquiry. [1897.] n. t. p. 6 pp.\*

P96 3 Same, and addenda. [1899.] n. t. p. 6 pp.

P96 4 Same. [1899.] n. t. p. 7 pp. P96 5

Same, corrected to Apr. 2, 1900. n. t. p. 8 pp.

P96 6 Same, corrected to Sept., 1901. 8 pp.

R31 [Resumption of office and general inquiries.] Feb. 6, 1899. (Circ.)

#### A22.3: Bulletins

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12

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15

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1 No. 1. State laws relating to management of roads, enacted in 1888–93; compiled by Roy Stone. 1894. 95 pp.

No. 2. Proceedings of Minnesota Good Roads Convention, held at St. Paul, Minn., Jan. 25, 26, 1894. 1894. 16 pp.

No. 3. Improvement of road system of Georgia; by O. H. Sheffield. 3 1894. 31 pp.

No. 4. Road-making materials in Arkansas; by John C. Branner.

11 pp.

No. 5. Information regarding road materials and transportation rates in certain States west of Mississippi River; furnished by officials of various railway companies. 1894. 24 pp.

No. 6. Information regarding roads, road materials, and freight rates in certain States north of Ohio River; furnished by officials of various

railway companies. 1894. 30 pp.

No. 7. Information regarding roads and road-making materials in certain Eastern and Southern States; furnished by officials of various railway companies. 1894. 29 pp.

No. 8. Earth roads, hints on their construction and repair; compiled by

Roy Stone. 1894. 20 pp.

No. 9. State aid to road building in New Jersey; by Edward Burrough. 1894. 20 pp.

No. 10. Proceedings of National Road Conference, Asbury Park, July 5, 6, 1894. 1894. 63 pp.

No. 11. Proceedings of Virginia Good Roads Convention, Richmond, Va., Oct. 18, 1894. 1895. 62 pp.

No. 12. Wide tires, laws of certain States relating to their use, and other pertinent information; compiled by Roy Stone. 1895. 16 pp.

No. 13. Kentucky highways, history of old and new systems; by M. H. Crump. 1895. 24 pp.

14 No. 14. Good roads, extracts from messages of governors; compiled by Roy Stone. 1895. 24 pp.

No. 15. Proceedings of Good Roads Convention of Texas, Houston, Tex., Feb. 19, 1895. 1895. 24 pp.

No. 16. Notes on employment of convicts in connection with road building; compiled by Roy Stone. 1895. 15 pp.

16<sup>2</sup> Same, revised edition. 1898. 21 pp.

No. 17. Historical and technical papers on road building in United States. 1895. 52 pp.

181 No. 18. State laws relating to management of roads enacted in 1894–1895; compiled by Roy Stone. 1895. 86 pp. [Continuation of Bull. 1.]

183 Same, Supplement. 1895. v+87-124 pp.

19 No. 19. Progress of road construction in United States; reports by delegates to National Road Parliament, Atlanta, Ga., Oct. 17-19, 1895. 1897. 47 pp. 20

No. 20. Traction tests; by Samuel T. Neely. 1896. 22 pp. 2 pl.

21 No. 21. Proceedings of International Good Roads Congress, held at Buffalo, N. Y., Sept. 16-21, 1901. 1901. 100 pp. **22** 

No. 22. Proceedings of 3d Annual Good Roads Convention of Boards of Supervisors of State of New York, held at Albany, N. Y., Jan. 28 and 29, 1902. 1902. 63 pp. 13 pl. 23

No. 23. Road conventions in Southern States and object-lesson roads constructed under supervision of Office of Public Road Inquiries, with cooperation of Southern Railway. 1902. 89 pp. 11 pl.

## Tables Classification no. Bulietins—Continued A22.3:

# A22. PUBLIC-ROAD INQUIRIES OFFICE—Continued

No. 24. Not issued 1902.

25 No. 25. Proceedings of Jefferson Memorial and Interstate Good Roads Convention, held at Charlottesville, Va., Apr. 2-4, 1902. 1902. 60 pp. 5 pl.

26 int 10.6, -2-65 7 1

#### Circulars A22.4:

- No. 1. Circular letter to the governors of States and Territories requesting 1 cooperation with Office of Road Inquiry.\*
- No. 2. Same, to the secretaries of state.\*
- 3 No. 3. Same, to the members of Congress.\*
- 4 No. 4. Same, to the State geologists.\*
- 5 No. 5. Same, to the railroad presidents.\*
- No. 6. General circular of inquiry.\*
- 7 No. 7. Request for information, etc.\*
- 8 No. 8. Same.\*
- No. 9. Circular relating to road conference at Asbury Park, N. J.\* 9
- 10 No. 10. Circular of a temporary character. [Copy not preserved by office.]\*
- No. 11. Same.\* 11
- 12 No. 12. Circular addressed to the statistical correspondents of the office.\*
- No. 13. List of Publications of the Office of Road Inquiry.\* 13
- 14 No. 14. Addresses on road improvement; by Roy Stone. 1894. n. t. p. 15 pp.
- 15 No. 15. Act to provide for construction of roads by local assessment, county and State aid, passed by New York Assembly. Oct. 31, 1894. n. t. p. 3 pp.
- 16 No. 16. Highway taxation, comparative results of labor and money systems. Nov. 9, 1894. n. t. p. 5 pp.

[For revision, see no. 24.]

- No. 17. Origin and work of Darlington Road League. Sept. 25, 1895. 6 pp. 17 18¹ No. 18. Report of Committee on Legislation adopted by State Good Roads Convention, Richmond, Va., Oct. 10, 11, 1895. Oct. 29, 1895. 6 pp.
- 183 Same, Nov. 10, 1895. 6 pp. 19
- No. 19. Traffic of country roads. Apr. 4, 1896. 4 pp. 20 No. 20. Comments on systems of maintaining country roads. May I, 1896. 7 pp.

[For revision, see revised ed. no. 24.]

- 21 No. 21. Methods of constructing macadamized roads. June 6, 1896. 12 pp. **22** No. 22. [Appeal for organization of State and local road-improvement societies]; by C. A. Locke. June 25, 1896. 3 pp.
- No. 23. Money value of good roads to farmers; by W. C. Latta. July 15, 23 1896. 4 pp.
- No. 24. Highway repairing. 1896. 12 pp. . 24 1
- No. 24. Revision of nos. 16, 20, 24, Highway maintenance and repairs. > 24<sup>2</sup> Dec. 15, 1897. 16 pp.
  - No. 25. Brick paving for country roads. Dec. 16, 1896. 7 pp. **25**
  - No. 26. Going in debt for good roads; address of Judge Thayer. Jan. 16, 26 1897. 6 pp.
  - 27 No. 27. Cost of hauling farm products to market or to shipping points in European countries; reports from consuls. Feb. 5, 1897. 12 pp.
  - No. 28. Addresses on road improvement in Maine, New York, North 28 Carolina, and Illinois; by Roy Stone. Mar. 2, 1897. 26 pp.
  - 29 No. 29. Forces which operate to destroy roads, with notes on road stones and problems therewith connected; by C. L. Whittle. Mar. 13, 1897. 14 pp. 4 pl.
  - No. 30. Repairs of macadam roads; by E. G. Harrison. Mar. 1, 1898. 30
  - 31 No. 31. Must farmer pay for good roads? by Otto Dorner. [n. d.] 40 pp. 16°
    - [This number was duplicated by assigning it to "State aid to road building in Minnesota," but a new edition of that circular was issued bearing its proper number, which is no. 32].

Classifica-A22. PUBLIC-ROAD INQUIRIES OFFICE—Continued tion no.

### **A22.4: Circulars—**Continued

[No. 32.] State aid to road building in Minnesota; by A. B. Choate. July 321 23, 1898. 12 pp. [Erroneously numbered 31.]

32<sup>2</sup> No. 32. Same, [reprint with correct number]. 12 pp.

33 No. 33. Road improvement in governors' messages. May 1, 1899. 14 pp.

No. 34. Social, commercial, and economic phases of road subject; by W. H. Moore. Mar. 29, 1900. 8 pp.

No. 35. [Higbie-Armstrong road improvement act]. May 16,1900. 15 pp. 36 No. 36. List of national, state, and local road associations and kindred organizations in U.S. Jan. 20, 1902. n. t. p. 13 pp.

36 <sup>2</sup> | Same, revised. May 1, 1902. n. t. p. 14 pp.

### A23. SEED AND PLANT INTRODUCTION

[Separated from Division of Botany and made independent publishing office about Jan. 1, 1901, Merged into Plant Industry Bureau July 1, 1901. See A19.]

#### **Annual reports** A23.1:

None issued.

#### A23.2: General publications

None issued.

#### A23.3: Bulletins

None issued.

### A23.4: | Circulars

No. 1. Best horse-radish varieties of Europe, and methods of cultivation; 1 by David G. Fairchild. Dec. 24, 1900. n. t. p. 8 pp.

No. 2. Cultivation of Znaim cucumbers; by David G. Fairchild. 1901. 8 pp.

#### A23.5: Inventories

See A6.6:1-8.

See for Inventory no. 9, A19.3:5.

### A24. SEED DIVISION

.[Merged into Bureau of Plant Industry, July 1, 1901. See A19.]

### A24.1: | Annual reports

**89**3

(In A1.1:868, p. 125.) 1868 (Dean). 1869 No report issued. (In A1.1:870, p. 155.) 1870 (Dean). 1871 (Dean). (In A1.1:871, p. 125.) 1872 (Dean). (In Al.1:872, p. 407.) 1873 (Dean). In A1.1:873, p. 210.) (In A1.1:874, p. 179.) 1874 (Dean). 1875 (Dean). (In A1.1:875, p. 359.) 1876 to 1878, no report issued. (In A1.1:879, p. 484.) 1879 (Dean). 1880 to 1884, no report issued. (In A1.1:885, p. 47.) 1885 (King). (In A1.1:886, p. 47.) 1886 (King). 1887 (King). (In A1.1:887, p. 653.) (In A1.1:888, p. 643.) 1888 (King). 1889 (Longley). (In A1.1:889, p. 477.) 1890 (Peck). (In A1.1:890, p. 425.) 1891 (Peck). (In A1.1:891, p. 451.) 1892 (Peck). (In A1.1:892, p. 471.) 1893 (Fegan) (calendar year) iii+389-392 pp. (Also in A1.1:893, p. 389.) 1894 (Fegan). (In Al.1:894, p. 187.)

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Tables
Classifics-
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tion no.

## A24. SEED DIVISION—Continued

**Annual reports—Continued** A24.1:

> 1895 (Fegan) July, 1894-Oct. 1895. (In A1.1:895, p. 201.) 896 1896 (Ashton) Oct. 1, 1895-June 30, 1896. iii+151-154 pp. (Also in A1.1:896, p. 151.)

1897-1900 none issued.

**A24.2:** General publications

None issued.

**A24.3**: Bulletins

None issued.

Circulars **A24.4:** |

896

None issued.

A24.5: Special agent for seed distribution, annual reports of

894 1894 (Harnden), [1]+211-213 pp. (Also in A1.1:894, p 211.) 1895 (Harnden). (In A1.1:895, p. 213.)

1896 (Harnden), [1]+155-237 pp. (Also in A1.1:896, p. 155.)

1897 (Harnden). (In A1.1:897, p. 181.) 1898 (Brigham). (In A1.1:898, p. 1.) 1899 (Brigham). (In A1.1:899, p. 3.)

1900 (Brigham). (In A1.1:900, p. 7.)

#### SILK SECTION A25.

[Discontinued June 30, 1891. By order of Oct. 28, 1889, this section was severed from the Division of Entomology, with which it had been connected since the beginning of the period of regular appropriations made by Congress in 1884.]

## A25.1: | Annual reports

889 1889 (Walker), [1]+453-476 pp. (Also in A1.1:889, p. 453.) 1890 (Walker), [1]+265-276 pp., 6 pl. (Also in A1.1:890, p. 265.) 890

General publications A25.2:

None issued.

A25.3: Bulletins

> 1 No. 1. How to raise silkworms, a brief manual of instructions abridged from Bulletin no. 9 of Division of Entomology; by Philip Walker. 1890. 16 pp.

A25.4: | Circulars

None issued.

### A26. SOILS BUREAU

[Formerly Division of Soils. For historical sketch of Bureau, see Yearbook, 1897 (A1.10:897), p. 122.]

#### A26.1: Annual reports

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CHIEF OF DIVISION OF AGRICULTURAL SOILS
1894 (Whitney). (In A1.1:894, p. 199.)
1895 (Whitney). (In A1.1:895, p. 179.)
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1896 (Whitney), iii+239-242 pp. (Also in A1.1:896, p. 239.) 896

CHIEF OF DIVISION OF SOILS

1897 (Whitney), ii+153-157 pp. (Also in A1.1:897, p. 153.) 897

1898 (Whitney), iii + 133-142 pp. 898 (Also in A1.1:898, p. 133.)

1899 (Whitney), iii+101-111 pp. 899 (Also in Al.1:899, p. 101.) 1900 (Whitney), iii+67-83 pp. (Also in A1.1:900, p. 65.) 900

1901 (Whitney), iii+113-140 pp. (Also in A1.1:901, p. 113.) 901

[Though the title-page of the 1901 report reads, "Division of Soils," the heading of the letter of transmittal reads correctly "Bureau of Soils."]

Chief of Bureau of Soils

902 | 1902 (Whitney), iv+155-188 pp. (Also in A1.1:902, p. 155.)

### A26. SOILS BUREAU——Continued

# A26.2: | General publications

Field parties. Instructions to field parties and descriptions of soil types. Field season 1902. n. d. 73 pp.

Tobacco. Catalogue of Connecticut shade-grown tobacco, Sumatra and Havana seed wrappers, grown under direction of Department of Agriculture during season of 1901, and packed in Sumatra and Cuban packages, to be sold at public auction May 1, 1902, at Hartford, Conn., for account of growers who have cooperated with Department. 1902. 26 pp. 4°

Types. List of soil types established by Division of Soils in 1899 and 1900, with brief description. Mar. 1, 1901. n. t. p. 11 pp.

## A26.3: Bulletins

**T99** 

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No. 1. Soil moisture, a record of amount of water contained in soils, during May, 1895. 16 pp.

2 No. 2. Same, June, 1895. 16 pp.

No. 3. Same, July, 1895. 23 pp.
No. 4. Methods of mechanical analysis of soils and of determination of amount of moisture in soils in field. 1896. 24 pp.

5 No. 5. Texture of some important soil formations. 1896. 23 pp. 35 pl.

No. 6. An electrical method of determining moisture content of arable soils; by Milton Whitney, Frank D. Gardner, and Lyman J. Briggs. 1897. 26 pp.

No. 7. An electrical method of determining temperature of soils; by Milton Whitney and Lyman J. Briggs. 1897. 15 pp.

No. 8. An electrical method of determining soluble salt content of soils, with some results of investigations on effect of water and soluble salts on electrical resistance of soils; by Milton Whitney and Thos. H. Means. 1897. 30 pp.

No. 9. Soil moisture: record of amount of water contained in soils during crop season of 1896; by Milton Whitney and Ralph S. Hosmer.

1897. 23 pp.

No. 10. Mechanics of soil moisture; by Lyman J. Briggs. 1897. 24 pp. No. 11. Tobacco soils of United States, a preliminary report upon soils of principal tobacco districts; by Milton Whitney. 1898. 47 pp. 13 pl.

No. 12. Electrical method of moisture determination in soils, results and modifications in 1897; by Frank D. Gardner. 1898. 24 pp. 3 pl. No. 13. Preliminary report on soils of Florida: by Milton Whitney. 1898.

No. 13. Preliminary report on soils of Florida; by Milton Whitney. 1898.
31 pp. 6 pl.

No. 14. Alkali soils of Yellowstone Valley, from preliminary investigation of soils near Billings, Mont.; by Milton Whitney and Thos. H. Means. 1898. 39 pp. 17 pl.

No. 15. Electrical instruments for determining moisture, temperature, and soluble salt content of soils; by Lyman J. Briggs. 1899. 35 pp.

16 No. 16. Catalogue of first 4,000 samples in soil collection of Division of Soils; by Milton Whitney. 1899. 145 pp.

No. 17. Soil solutions, their nature and functions, and classification of alkali lands; by Frank K. Cameron. 1901. 39 pp.

18 No. 18. Solution studies of salts occurring in alkali soils; [articles] by Frank K. Cameron, Lyman J. Briggs, and Atherton Seidell. 1901. 89 pp.

No. 19. Capillary studies and filtration of clay from soil solutions; [articles] by Lyman J. Briggs and Macy H. Lapham. 1902. 40 pp.

No. 20. Growing Sumatra tobacco under shade in Connecticut Valley; by Milton Whitney. 1902. 31 pp. 7 pl.

# A26.4: Circulars

- No. 1. Announcement [of functions of Division]; by Milton Whitney.

  Mar. 30, 1894. n. t. p. 3 pp.
- V 2 No. 2. Instructions for taking samples of soil for moisture determinations; by Milton Whitney. Apr. 26, 1894. n. t. p. 3 pp.
  - No. 3. Soils of Pecos valley, New Mexico; by Thomas H. Means and Frank D. Gardner. n. d. n. t. p. 7 pp.

#### Tables Classifica-**SOILS BUREAU—**Continued tion no. A 26.4: **Circulars**—Continued No. 4. Soils of Salt Lake valley, Utah; by Frank D. Gardner and John Stewart. n. d. n. t. p. 11 pp. 5 No. 5. Bulk fermentation of Connecticut tobacco; by Marcus L. Floyd. n. d. n. t. p. 10 pp. **6** No. 6. Instructions for determining in field the salt content of alkali waters and soils; by Milton Whitney. Mar. 7, 1900. n. t. p. 9 pp. No. 7. Description of soil map of Connecticut valley. June 29, 1900. n. t. p. 4 pp. 8 No. 8. Reclamation of salt marsh lands; by Thos. H. Means. Aug. 3, 1901. n. t. p. 10 pp. No. 9. Soil survey around Imperial, Cal.; by Thomas H. Means and J. Gar-8 V 12 nett Holmes. Jan. 10, 1902. n. t. p. 20 pp. Field operations of Division of Soils (annual) **A26.5**: 1899. [1st.] See A1.8:64. 2d. 474 pp. 51 pl. 9001 **1900**. 900° Same. 24 maps in 8° folder. Same, including maps. 56th Cong., 2d sess., H. doc. 526; serial no. 4181. 1901. 3d. 647 pp. 96 pl. 901 1 901<sup>2</sup> Same. 31 maps in 8° folder. Same, including maps. 57th Cong., 1st sess., H. doc. 655; serial no. **4384**. A26.5a: Field operations of Division of Soils (separates.) [Each of the papers contained in the report is issued separately, with maps belonging thereto.] A27. STATISTICS DIVISION For historical sketch of Division, see Yearbook, 1897 (A1.10:897), p. 258. **Annual reports** A27.1: REPORT OF AGRICULTURAL STATISTICS 1863 (Bollman). (In Al.1:863, p. 579.) 1864 (Bollman). (In A1.1:864, p. 564.) REPORT OF STATISTICIAN (In A1.1:865, p. 54.) 1865 (Dodge). 1866 (Dodge). (In A1.1:866, p. 51.) 1867 (Dodge). (In A1.1:867, p. 77.) 1868 (Dodge). (In A1.1:868, p. 16.) 1869 (Dodge). (In A1.1:869, p. 20.) 1870 (Dodge). (In A1.1:870, p. 24.) 1871 (Dodge). (In A1.1:871, p. 13.) 1872 (Dodge). (In A1.1:872, p. 9.) 1873 [Dodge]. (In A1.1:873, p. 15.) 1874 (Dodge). (In A1.1:874, p. 15.) (In A1.1:875, p. 17.) 1875 (Dodge) (In A1.1:876, p. 87.) 1876 (Dodge). (In A1.1:877, p. 149.) 1877 (Dodge). 1878 (Worthington). (In Al.1:878, p. 257.) 1879 (Worthington). (In A1.1:879, p. 127.) 1880 (Worthington). (In A1.1:880, p. 185.) 1881 and 1882 (Dodge). (In A1.1:881-2, p. 577.) 1883 (Dodge). (In A1.1:883, p. 251.) 1884 (Dodge). (In A1.1:884, p. 419.) 1885 (Dodge). (In Al.1:885, p. 345.) 1886 (Dodge). (In A1.1:886, p. 359.) 1887 (Dodge). (In A1.1:887, p. 523.)

1891 (Dodge), [1]+273-340+v pp. (Also in A1.1:891, p. 273.)

1892 (Dodge), iii+403-470+ii pp. (Also in A1.1:892, p. 403.)

1890 (Dodge), [1]+287-360+iii pp. 3 pl. (Also in A1.1:890, p. 287.)

(In A1.1:888, p. 405.)

1889 (Dodge), [1]+201-272 pp. (Also in A1.1:889, p. 201.)

1888 (Dodge).

889

890

891 892

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Classifica-
                   A27.
                           STATISTICS DIVISION—Continued
tion no.
A27.1:
         Annual reports—Continued
         REPORT OF STATISTICIAN—Continued
   893
         1893 (Robinson), iii+465-566+iv pp.
                                                 (Also in Al.1:893, p. 465.)
         1894 (Robinson). (In A1.1:894, p. 113.)
         1895 (Robinson), iii+111-129 pp. (Also in A1.1:895, p. 111.)
   895
         1896 (Robinson), iii+115-122 pp. (Also in A1.1:896, p. 115.)
   896
         1897 (Hyde), ii+219-224 pp. (Also in A1.1:897, p. 219.
   897
         1898 (Hyde), iii+175-178 pp. (Also in A1.1:898, p. 175.)
   898
         1899 (Hyde), iii+263-266 pp. (Also in A1.1:899, p. 263.)
   899
         1900 (Hyde), 293-297 pp. n. t. p. (Also in A1.1:900, p. 293.)
   900
         1901 (Hyde), 341-344 pp. n. t. p. (Also in A1.1:901, p. 341.)
   901
         1902 (Hyde). (In A1.1:902, p. 401.)
A27.2:
         General publications
         Agricultural statistics. American centennial album of agricultural statis-
  Ag8
                tics, including maps, charts, diagrams, illustrations of industrial
                colleges, and specimens of breeds of farm animals; compiled by
                J. R. Dodge, Washington. 1876. 46 l. oblong large 8°
  C33
         Cereals. Production and distribution of cereals of U. S.; by J. R. Dodge.
                1879. 14 pp.
             [Extract from report of Joseph Nimmo, jr., chief of Bureau of Statistics, Treasury
                Department, on Internal commerce of U.S., published Dec. 1, 1879.]
   C88<sup>1</sup>
          Crop correspondents. Manual of instructions to crop correspondents; by
                Henry A. Robinson. 1895. 28 pp.
             Same, revised and corrected. 1896. 23 pp.
   C88<sup>2</sup>
         Graphics. Album of agricultural graphics of U.S.; [by J. R. Dodge].
  G76<sup>1</sup>
                1890. [6] pp. 10 pl. 121 inches x 185 inches.
  G762
             Same; by J. R. Dodge. 1891. [6] pp. 10 pl. 12\frac{1}{2} inches x 18\frac{1}{2} inches.
   In2
         Industrial Colleges: The nature of education to be given in them; their
                several kinds of instruction considered, by Lewis Bollman; to which
                is added a communication of general plan of college building, with
                necessary aids to instruction in each department of education, by
                Richard Owen. [1864.] 40 pp.
   P96
                        [Letter relating to publications.] By Henry A. Robinson.
         Publications.
                July 15, 1895. (Circ.)
                     Album of agricultural statistics of U.S.; [by J. R. Dodge].
   St2 1
         Statistics.
                1889. 8 pp. 16 pl. 4°
   St2 2
             Same; by J. R. Dodge. 1891. 8 pp. 16 pl.
A27.3:
          Bulletins
          See A27.8:
A27.4:
         Circulars
     1
          No. 1. Acreage, production, and value of farm crops in U.S., 1866 to 1895,
                with other data as to cotton and wool. July 24, 1896. n. t. p.
                8 pp.
         No. 2. Wheat crop of world. Aug. 7, 1896. n. t. p.
             [Reprinted from Statistician's report, March, 1896.]
     3
          No. 3. Farmers' interest in finance. Dec. 4, 1896. n. t. p. 15 pp.
          No. 4. Cotton crop of 1895; by James L. Watkins. Dec. 4, 1896. n. t. p.
     4
                15 pp.
                 See A27.9:35.
          No. 5.
          No. 6.
                 See A27.9:35.
          No. 7.
                 See A27.9:35.
          No. 8.
                See A27.9:35.
     8
          No. 9. Cotton crop of 1897-98; by James L. Watkins. Nov. 14, 1898.
                n. t. p. 16 pp.
    10
          No. 10. Brazos river, Texas, flood of June-July, 1899; its effects upon
                agriculture of submerged region; by E. S. Holmes, jr. Aug. 19,
                1899. n. t. p. 8 pp.
          No. 11. World's grain crops in 1899. Oct. 5, 1899. n. t. p. 8 pp.
    11
    12
          No. 12. Changes in railroad freight classifications; by Edward G. Ward, jr.
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April 30, 1900. n. t. p. 43 pp.

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Tables
('lassifica-
                                   STATISTICS DIVISION—Continued
                          A27.
 tion no.
             Circulars—Continued
A27.4:
             No. 13. List of free employment agencies for use of farmers; by Max
                     West. June 28, 1900. 42 pp.
             No. 14. Estimates of Russian crops; by E. T. Peters. Feb. 5, 1901. n. t. p.
       14
                     11 pp.
A27.5:
             Crop circulars
                 [From first issue of crop circular, May, 1898: "Crop circulars will hereafter take the place of the crop reports, new series, issued monthly (except January), and will consist of the information contained in the telegraphic reports of the 10th of
                     each month, with such additions as will enhance its value to the farmers and as
                     the circular form will permit. Special crop reports will not be abandoned, but their issue will depend upon the seasonableness and importance of the subject
                     and not upon a fixed date."]
      898
             1898. May, 3 pp.
                 June, 4 pp.
                 July, 4 pp.
                 Aug., 4 pp.
                 Sept., 4 pp.
                 Oct., 8 pp.
                 Nov., 4 pp.
             1899. May, 4 pp.
      899
                 June, 4 pp.
                 July, 8 pp.
                 Aug., 4 pp.
                 Sept., 4 pp.
                 Oct., 4 pp.
                 Nov., 4 pp.
      900
             1900. Apr., 4 pp.
                 [Discontinued.]
             Crop reporter 4°
A27.6:
                 [Announcement (v. 1, no. 1, May, 1899): "This publication is issued for the benefit of the crop correspondents of the Division of Statistics, and as a convenient means
                     of communication between them and the Statistician. It will be sent every
                     monthly correspondent regularly enrolled so long as he continues to supply the
                     Statistician with the information asked for, and an earnest effort will be made to
                     make it interesting, instructive, and helpful to him in his work. This is not
                     designed for general distribution and will not be mailed to any but actual and
                     active crop correspondents."]
         1
              V. 1. No. 1, May, 1899. n. t. p. 4 pp.
                  No. 2, June, 1899. n. t. p.
                                                       4 pp.
                  No. 3, July, 1899.
                                                      4 pp.
                                           n. t. p.
                  No. 4, Aug., 1899.
                                          n. t. p.
                                                      4 pp.
                  No. 5, Sept., 1899. n. t. p.
                                                       4 pp.
                  No. 6, Oct., 1899. n. t. p.
                                                      4 pp.
                  No. 7, Nov., 1899.
                                         n. t. p.
                                                      4 pp.
                  No. 8, Dec., 1899.
                                         n. t. p.
                                                      4 pp.
                  No. 9, Jan., 1900.
                                                      4 pp.
                                         n. t. p.
                  No. 10, Feb., 1900.
                                          n. t. p.
                  No. 11, Mar., 1900. n. t. p.
                  No. 12, Apr., 1900. n. t. p.
              V. 2. No. 1, May, 1900. n. t. p. 8 pp.
                  No. 2, June, 1900. n. t. p.
                  No. 3, July, 1900.
                                          n. t. p.
                  No. 4, Aug., 1900. n. t. p.
                      Same, supplement. n. t. p. 4 pp.
                  No. 5, Sept., 1900. n. t. p.
                                                       8 pp.
                  No. 6, Oct., 1900.
                                          n. t. p.
                                                      8 pp.
                  No. 7, Nov., 1900.
                                                       8 pp.
                                           n. t. p.
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No. 2, June, 1901. n. t. p. 8 pp.

110

n. t. p. 8 pp.

4 pp.

8 pp.

8 pp.

8 pp.

n. t. p.

n. t. p.

n. t. p.

n. t. p.

No. 8, Dec., 1900.

No. 9, Jan., 1901.

No. 10, Feb., 1901.

No. 11, Mar., 1901.

No. 12, Apr., 1901.

V. 3. No. 1, May, 1901. n. t. p. 8 pp.

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Classifica-
 tion no.
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#### STATISTICS DIVISION—Continued A27.

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A27.6:
          Crop reporter—Continued
          V. 3. No. 3, July, 1901.
                                     n. t. p.
             No. 4, Aug., 1901.
                                    n. t. p.
             No. 5, Sept., 1901.
                                     n. t. p.
                                              8 pp.
             No. 6, Oct., 1901.
                                             8 pp.
                                   n. t. p.
              No.
                   7, Nov., 1901.
                                    n. t. p.
                                              8 pp.
             No. 8, Dec., 1901.
                                    n. t. p.
                                              8 pp.
              No. 9, Jan., 1902.
                                    n. t. p.
                                              8 pp.
             No. 10, Feb., 1902.
                                    n. t. p.
                                              8 pp.
             No. 11, Mar., 1902.
                                              8 pp.
                                    n. t. p.
             No. 12, Apr., 1902.
                                    n. t. p.
                                              8 pp.
      4
          V. 4. No. 1, May, 1902.
                                                8 pp.
                                      n. t. p.
              No. 2, June, 1902.
                                             8 pp.
                                   n. t. p.
             No. 3, July, 1902.
                                   n. t. p.
                                             8 pp.
              No. 4, Aug., 1902.
                                   n. t. p.
                                             8 pp.
              No. 5, Sept., 1902.
                                   n. t. p.
                                             8 pp.
             No. 6, Oct., 1902.
                                            8 pp.
                                  n. t. p.
              No. 7, Nov., 1902.
                                             8 pp.
                                   n. t. p.
             No. 8, Dec., 1902.
                                   n. t. p.
                                            8 pp.
A27.7:
          Monthly crop synopsis
             [Synopsis of the monthly statistical reports (A27.9:) issued as a four-page leaflet, soon after the 10th of each month from Mar., 1890, to May, 1896, inclusive, and
                 bearing a number identical with that of the report which it summarizes.
    890
          1890. Mar.
                         Synopsis of Statistical Report no. 71.)
                         Synopsis of Statistical Report no. 72.
                Apr.
                May.
                         Synopsis of Statistical Report no. 73.
                          Synopsis of Statistical Report no. 74.
                 June.
                July.
                         Synopsis of Statistical Report no. 75.
                 Aug.
                         (Synopsis of Statistical Report no. 76.
                         Synopsis of Statistical Report no. 77.
                Sept.
                 Oct.
                         Synopsis of Statistical Report no. 78.
                 Nov.
                         Synopsis of Statistical Report no. 79.
                 Dec.
                          Synopsis of Statistical Report no. 80.
    891
          1891. Feb.
                          Synopsis of Statistical Report no. 81.
                 Mar.
                         Synopsis of Statistical Report no. 82.
                         Synopsis of Statistical Report no. 83.
                 Apr.
                 May.
                         Synopsis of Statistical Report no. 84.
                June.
                         Synopsis of Statistical Report no. 85.
                July.
                          Synopsis of Statistical Report no. 86.
                         Synopsis of Statistical Report no. 87.
                 Aug.
                Sept.
                         Synopsis of Statistical Report no. 88.
                 Oct.
                         (Synopsis of Statistical Report no. 89.)
                 Nov.
                         Synopsis of Statistical Report no. 90.
                 Dec.
                          Synopsis of Statistical Report no. 91.
    . 892
          1892. Feb.
                          Synopsis of Statistical Report no. 92.)
                         Synopsis of Statistical Report no. 93.)
                 Mar.
                         (Synopsis of Statistical Report no. 94.)
                 Apr.
                 May.
                         (Synopsis of Statistical Report no. 95.)
                         (Synopsis of Statistical Report no. 96.)
                June.
                July.
                         Synopsis of Statistical Report no. 97.)
                          Synopsis of August Crop Report.)
                 Aug.
                         Synopsis of September Crop Report.)
                Sept.
                 Oct.
                         Synopsis of October Crop Report.)
                 Nov.
                         (Synopsis of November Crop Report.)
                         Synopsis of December Crop Report.)
                 Dec.
     893
          1893. Jan.
                         (Synopsis of December Crop Report.)
                         Synopsis of Statistical Report no. 101.)
                 Feb.
                 Mar.
                         Synopsis of Statistical Report no. 102.
                 Apr.
                         Synopsis of Statistical Report no. 103.
                 May.
                         Synopsis of Statistical Report no. 104.
                 June.
                         (Synopsis of Statistical Report no. 105.)
                 July.
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Aug.

(Synopsis of Statistical Report no. 106.)

(Synopsis of Statistical Report no. 107.)

### Tables

# Classifica-

## A27. STATISTICS DIVISION—Continued

A27.7:	Monthly o	rop synopsis—Continued
893	1893. Sept.	(Synopsis of Statistical Report no. 108.)
	Oct.	(Synopsis of Statistical Report no. 109.)
}	Nov.	(Synopsis of Statistical Report no. 110.)
ı	Dec.	(Synopsis of Statistical Report no. 111.)
894	1894. Feb.	(Synopsis of Statistical Report no. 112.)
į	Mar.	(Synopsis of Statistical Report no. 113.)
	Apr.	(Synopsis of Statistical Report no. 114.)
	May.	(Synopsis of Statistical Report no. 115.)
	June.	(Synopsis of Statistical Report no. 116.)
	July.	(Synopsis of Statistical Report no. 117.)
	Aug.	(Synopsis of Statistical Report no. 118.)
Ţ	Sept.	(Synopsis of Statistical Report no. 119.)
	Oct.	(Synopsis of Statistical Report no. 120.)
'	Nov.	(Synopsis of Statistical Report no. 121.)
895 ¦	1895. Jan.	(Synopsis of Statistical Report no. 122.)
	Feb.	(Synopsis of Statistical Report no. 123.)
	Mar.	(Synopsis of Statistical Report no. 124.)
	, Apr.	(Synopsis of Statistical Report no. 125.)
	May.	(Synopsis of Statistical Report no. 126.)
	June.	(Synopsis of Statistical Report no. 127.)
	July.	(Synopsis of Statistical Report no. 128.)
	Aug.	(Synopsis of Statistical Report no. 129.)
	Sept.	(Synopsis of Statistical Report no. 130.)
	Oct.	(Synopsis of Statistical Report no. 131.)
	Nov.	(Synopsis of Statistical Report no. 132.)
ļ	$\mathbf{Dec.}$	(Synopsis of Statistical Report no. 133.)
896	1896. Mar.	(Synopsis of Statistical Report no. 135.)
	Apr.	(Synopsis of Statistical Report no. 136.)
i	May.	(Synopsis of Statistical Report no. 137.
ļ	[Discontinu	

# A27.8: Miscellaneous series, bulletin .

[The word "Bulletin" was added to the series title beginning with no. 9.]

1 No. 1. Report on flax, hemp, ramie, and jute, with considerations upon flax and hemp culture in Europe, report on ramie machine trials of 1889 in Paris, and present status of fiber industries in U. S.; by Charles Richards Dodge. [1st ed.] 1890. 104 pp.

See, for 2d ed., A11.5:1.

No. 2. Report on agriculture of South America, with maps and latest statistics of trade; by Almont Barnes. 1892. 189 pp.

No. 3. Cooperative credit associations in certain European countries, and their relation to agricultural interests; by Edward T. Peters. 1892. 117 pp.

No. 4. Wages of farm labor in United States, results of nine statistical investigations from 1866 to 1892, with extensive inquiries concerning wages from 1840 to 1865. 1892. 69 pp.

5 | No. 5. Production and distribution of principal agricultural products of world. 1893. 205 pp.

No. 6. Rice: its cultivation, production, and distribution in U.S. and foreign countries, by Amory Austin; with chapter on Rice soils of South Carolina, by Milton Whitney. 1893. 89 pp.

7 No. 7. An agricultural survey of Wyoming; by John W. Hoyt. 1893. 72 pp. 8 No. 8. Recent features of our foreign trade; by Edward T. Peters. 1894.

No. 9. Production and price of cotton for 100 years; by James L. Watkins. 1895. 20 pp.

See, for abstract, A27.8a:C82.

10 No. 10. Railway charges for transportation of wool. 1896. 30 pp.

No. 11. Number and value of farm animals of U.S., and animal products, 1880–1896. 1896. 63 pp.

12 No. 12. Freight charges for ocean transportation of products of agriculture, Oct. 1, 1895-Oct. 1, 1896. 1896. 53 pp.

	Tables
Classifica- tion no.	A27. STATISTICS DIVISION—Continued
A27.8:	Miscellaneous series, bulletin—Continued
13 14	No. 13. Fertilizer industry; review of statistics of production and consumption, with abstract of State laws for analysis and sale; by John Hyde. 1898. 27 pp.  No. 14. Of what service are statistics to the farmer? by John Hyde.
25.1	1898. iii+258-270 pp. [Reprint from Yearbook, 1897, p. 258. See A1.10:1897.]
151	No. 15. Changes in rates of charge for railway and other transportation services; by H. T. Newcomb. 1898. 80 pp.
15° 16 17	Same, revised, 1901. 86 pp.  No. 16. Cost of cotton production; by James L. Watkins. 1899. 99 pp.  No. 17. Cotton crop of 1898–99; by James L. Watkins. 1900. 32 pp.
18	No. 18. Course of prices of farm implements and machinery for series of years; by George K. Holmes. 1901. 31 pp.
19 20	No. 19. Cotton crop of 1899–1900; by James L. Watkins. 1901. 46 pp. No. 20. Wheat growing and general agricultural conditions in Pacific coast region of U. S.; by Edwin S. Holmes, jr. 1901. 44 pp. 8 pl. 1 map.
21	No. 21. Rates of charge for transporting garden truck, with notes on growth of industry; by Edward G. Ward, jr., and Edwin S. Holmes, jr. 1901. 86 pp.
22	No. 22. Wages of farm labor in U.S.; result of eleven statistical investigations, 1866–1899. 1901. 47 pp.
23	No. 23. Statistics on fruit industry of California; by Edwin S. Holmes, jr. 1901. 11 pp.
A27.8a:	Miscellaneous series, builetin (separates)
C82	Cotton and currency. [1895.] n. t. p. 3 pp. [Abstract of Misc. series, Bull. No. 9. See A27.8:9.]
A27.9:	Statisticai reports
) i .	[Contains reports on condition of crops, and special subjects of interest to farmers. Issued as "Monthly" or "Bi-monthly Report" of Department from May, 1863, to December, 1876, when the series was discontinued and the issue of the statistical matter was transferred to the series of "Special reports" (A1.6:) and there appeared under various numbers, not always consecutive, from Jan., 1877, to Sept., 1883.
ن بر امر'د	Another change was made in October, 1883, when "New Series, Report no. 1," appeared containing the crop statistics. This last series was continued, consecutively numbered, up to no. 155, December, 1897. No. 156 was issued April 20, 1899. From May, 1898, to April, 1900, the statistics were issued in a "Crop circular" (A27.5). Beginning with May, 1900, they were merged into the "Crop Reporter"
// ``	(A27.6:) which is now being issued. A "Synoptical index" of this series was issued by the Department in 1897 (A21.8:2), but as it did not give a table of the various reports of the Statistician, indexed under the comprehensive title "Reports of the Statistician," it can not be definitely determined whether the present
)	collation includes all or more than the index. All reports of the Statistician relative to crops and farm animals have, however, been included. The volume numbers are assigned to the yearly groups of reports to facilitate listing and reference.]
<b></b>	[V. 1.] 1863. [No. 1.] Monthly report on condition of crops, May and June, 1863,
v 5	n. t. p. 16 pp. [No. 2.] Same, July, 1863, n. t. p. 19 pp. [No. 3.] Same, Aug., 1863, n. t. p. 20 pp. [No. 4.] Same, Sept., 1863, n. t. p. 41 pp. [No. 5.] Same, Oct., 1863, n. t. p. 20 pp.
` <b>,</b>	[No. 6.] Same, Nov., 1863, n. t. p. 38 pp. Same, Dec. (None issued.)
, · · · · · · · · · · · · · · · · · · ·	[V. 2.] 1864. [No. 1.] Bi-monthly report of Agricultural Department, Jan. and Feb.,

[No. 1.] Bi-monthly report of Agricultural De 1864. 72 pp. [No. 2.] Same, Mar. and Apr., 1864. 96 pp. [No. 3.] Same, Apr. and May, 1864. 38 pp. [No. 4.] Same, June and July, 1864. 23 pp. Same, Aug. (None issued.) [No. 5.] Same, Sept. and Oct., 1864. 56 pp. [No. 6.] Same, Nov. and Dec., 1864. 59 pp.

(L)

38 pp. 23 pp.

### A27. STATISTICS DIVISION—Continued

## A27.9: | Statistical reports—Continued

3 [V. 3.] 1865.

[No. 1.] Monthly report of Agricultural Department, Jan., 1865. 50 pp.

[No. 2.] Same, Feb., 1865. 48 pp.

[No. 3.] Same, Mar., 1865. 41 pp

[No. 4.] Same, Apr.-May, 1865. 86 pp. [No. 5.] Same, June-July, 1865. 60 pp.

[No. 6.] Same, Aug., 1865. 54 pp.

No. 7.] Same, Sept., 1865. 51 pp.

No. 8.] Same, Oct., 1865. 46 pp. No. 9.] Same, Nov., 1865. 53 pp.

No. 10. Same, Dec., 1865. 43 pp.

4 [V. 4.] 1866.

Monthly report of Department of Agriculture for year 1866; J. R. Dodge, editor. 1867. vii+457 pp.

Contents:

Jan., 50 pp.; Feb., pp. 51-122; Mar., pp. 123-169; Apr., pp. 171-228; May (none issued); June, pp. 229-276; July, pp. 277-324; Aug. (none issued); Sept., pp. 325-371; Oct., pp. 373-408; Nov. and Dec., pp. 409-457.

5 [V. 5.] 1867.

Monthly reports of Department of Agriculture for year 1867; J. R. Dodge, editor. 1868. xi + 397 pp.

Contents:

Jan., 48 pp.; Feb., 49–80; Mar., pp. 81–127; Apr., pp. 129–186; May-June, pp. 187–233; July, pp. 235–270; Aug.-Sept., pp. 271–311; Oct., pp. 313–352; Nov.-Dec., pp. 353–397.

6 | [V. 6.] 1868.

Monthly reports of Department of Agriculture for year 1868; edited by J. R. Dodge. 1868. xi: 483 pp.

ntenta:

Jan., 55 pp.; Feb., pp. 57-107; Mar., 109-169; Apr., pp. 171-234; May-June, pp. 235-307; July, pp. 309-339; Aug.-Sept., pp. 341-383; Oct., pp. 385-420; Nov.-Dec., pp. 421-483.

7 [V. 7.] 1869.

Monthly reports of Department of Agriculture for year 1869; edited by J. R. Dodge. 1869. xii+419 pp.

Contents:

Jan., 40 pp.: Feb., pp. 41-82; Mar.-Apr., pr

Jan., 40 pp.; Feb., pp. 41-82; Mar.-Apr., pp. 83-185; May-June, pp. 187-262; July, pp. 263-314; Aug.-Sept., pp. 263-326; Oct., pp. 327-386; Nov.-Dec., pp. 827-419. Note.—Starred pages in index refer to those pages duplicated in Aug.-Sept., and Nov.-Dec. numbers.

8 [V. 8.] 1870.

Monthly reports of Department of Agriculture for year 1870; edited by J. R. Dodge. 1871. xiii+498 pp.

Contents:

Jan., 64 pp.; Feb., pp. 65-110; Mar.-Apr., pp. 111-187; May-June, pp. 189-260; July, pp. 261-308; Aug.-Sept., pp. 309-385; Oct., pp. 387-454; Nov.-Dec., pp. 455-498.

9 | [V. 9.] 1871.

Monthly reports of Department of Agriculture for year 1871. 1872. xiv | 517 pp.

Contents:

Jan., 52 pp.: Feb., pp. 53-92; Mar.-Apr., pp. 93-168; May-June, pp. 169-230; July, pp. 231-291; Aug.-Sept., pp. 293-376; Oct., pp. 377-430; Nov.-Dec., pp. 431-517.

10 | [V. 10.] 1872.

Monthly reports of Department of Agriculture for year 1872. 1873. xiv + 528 pp.

Contents:

Jan., 48 pp.; Feb., pp. 49-102; Mar.-Apr., pp. 103-169; May-June, pp. 171-246; July, pp. 247-326; Aug.-Sept., pp. 327-409; Oct., pp. 411-465; Nov.-Dec., pp. 467-528.

11 <sub>|</sub> [V. 11.] 1873.

Monthly reports of Department of Agriculture for year 1873. 1873. xii +618 pp.

Contents:

Jan., 48 pp.; Feb. (none issued); Mar., pp. 49–131; Apr., pp. 131–208; May–June, pp. 209–297; July, pp. 299–383; Aug.–Sept., pp. 385–463; Oct., pp. [1] +465–518; Nov.–Dec., pp. ii+519–618.

## A27. STATISTICS DIVISION—Continued

## A27.9: | Statistical reports—Continued

12 | [V. 12.] 1874.

Monthly reports of Department of Agriculture for year 1874. 1875. xi+545 pp.

ontenta:

Jan., 70 pp.; Feb.-Mar., pp. 71-178; Apr.-May, pp. 175-242; June, pp. 243-285; July, pp. 287-338; Aug.-Sept., pp. 339-400; Oct., pp. 401-459; Nov.-Dec., pp. 461-545.

13 | [V. 13.] 1875.

Monthly reports of Department of Agriculture for year 1875. 1876. xiii+532 pp.

Contents:

Jan., 63 pp.; Feb.-Mar., pp. 65-146; Apr., pp. [1] +147-186; May-June, pp. 187-257, 8 pl.; July, pp. 259-329, 1 pl.; Aug.-Sept., pp. 331-411; Oct., pp. 413-471; Nov.-Dec., pp. 473-532.

14 | [V. 14.] 1876.

Monthly reports of Department of Agriculture for year 1876. 1877. xi+511 pp.

Contents:

Jan.-Feb., 74 pp. 2 pl.; Mar.-Apr., pp. 75-129, 1 pl.; May-Jung, pp. [1] +131-214, 10 pl.; July, pp. 215-291; Aug.-Sept., pp. 293-379, 1 pl.; Oct., pp. 381-489, 2 pl.; Nov.-Dec., pp. 441-511.

[Numbers in that part of the Statistical Series designated as "Special Reports" which are missing here will be found in the series of Special Reports under the Secretary's Office (A1.6.) All of the Special Reports which are properly in the Statistical Series are, however, found here, those in A1.6 being special reports on miscellaneous subjects.]

15 [V. 15.] 1877.

Special report no. 2. Report upon condition of crops; also, statement of international wheat supply, and our wheat exports, with foreign crops and prices. 1877. 35 pp.

16 | [V. 16.] 1878.

Special reports no. 5. Report upon condition of crops, June 1, 1878. 1878. 10 pp.

Special reports no. 6. Same, July 1, 1878. 1878. 17 pp. Special reports no. 7. Same, Aug. 1, 1878. 1878. 26 pp.

Special reports no. 8. Same, Sept. 1, 1878. 1878. 22 pp. Special report no. 9. Same, Dec. 1, 1878. 1878. 28 pp.

17 [V. 17.] 1879.

Special report no 10. Report upon condition of crops and live stock, January, 1879. 1879. 21 pp.

Special report no. 13, April, 1879. 1879. 26 pp.

Special report no. 14. Same, June 1, 1879. 1879. 22 pp.

Special report no. 15. Report upon condition of crops, July 1, 1879. 1879. 24 pp.

Special report no. 16. Same, Aug. 1, 1879. 1879. 25 pp.

Special report no. 17. Same, Sept. 1, 1879. 1879. 25 pp.

Special report no. 19. Same, Nov. 1, 1879. 1879. 21 pp.

Special report no. 20. Same, Dec. 1, 1879. 1879. 15 pp.

18 | [V. 18.] 1880.

Special report no 21. Report upon number and prices of farm animals, Jan. 1, 1880. 1880. 27 pp.

Special report no. 23. Report upon condition of crops and live stock, April, 1880. 1880. 22 pp.

Special report no. 24. Report upon condition of crops, June and July, 1880. 1880. 31 pp.

Special report no. 25. Same, Aug. 1, 1880. 1880. 29 pp.

Special report no. 27. Same, Sept. 1, 1880. 1880. 34 pp.

Special report no. 29. Same, Nov. 1, 1880. 1880. 19 pp.

Special report no. 30. Same, Dec. 1, 1880. 1880. 19 pp.

19 [V. 19.] 1881.

Special report no. 32. Report upon condition of crops and live stock, April, 1881. 1881. 22 pp.

Special report no. 37. Report upon condition of crops, June and July, 1881. 1881. 24 pp.

Special report no. 38. Same, Aug. 1, 1881. 1881. 21 pp. Special report no. 39. Same, Sept. 1, 1881. 1881. 30 pp.

## A27. STATISTICS DIVISION—Continued

### A27.9:

## Statistical reports—Continued

20

[V. 20] 1882.

Special report no. 41. Report upon estimated production of cereals of U.S., for year 1881. [February, 1882.] 1882. 8 pp.

Special report no. 42. Condition of winter grain and numbers and condition of farm animals of U.S., April, 1882. 1882. 82 pp.

Special report no. 43. Condition of winter grain; progress of cotton and corn planting; rate of wages and labor; and results of tile draining, May, 1882. 1882. 20 pp.

Special report no. 44. Acreage and condition of cotton; condition of all cereals; and area of spring grain, June, 1882. 1882. 15 pp.

Special report no. 45. Area and condition of corn; condition of cotton, and of small grains, sorghum, tobacco, etc., July, 1882. 1882. 33 pp.

Special report no. 46. Condition of corn and cotton, of spring wheat, fruits, etc.; also freight rates of transportation companies, August, 1882. 1882. 54 pp.

Special report no. 49. Condition of corn and cotton, of potatoes, fruits, etc.; also freight rates of transportation companies, September, 1882. 1882. 48 pp.

Special report no. 51. Yield and quality of small grain; condition of corn and cotton, of potatoes, tobacco, etc., also freight rates of transportation companies, October, 1882. 1882. 58 pp.

Special report no. 52. Yield per acre of cotton, corn, potatoes, and other field crops, with comparative product of fruits; also local freight rates of transportation companies, November, 1882. 1882. 109 pp.

Special report no. 53. Product and price of principal crops of 1882; also freight rates of transportation companies, including changes of winter tariff, December, 1882. 1882. 79 pp.

| [V. 21] 1883.

21

Special report no. 56. Numbers and values of farm animals; product and quality of cotton; and comparative values of American and European farm implements; also rates of transportation in Europe and U. S., February, 1883. 1883. 74 pp.

Special report no. 57. Distribution and consumption of corn and wheat, and rates of transportation of farm products, March, 1883.

1883. 39 pp.

Special report no. 58. Area and condition of winter wheat, and condition of farm animals; also spring rates of transportation of farm products, April, 1883. 1883. 46 pp.

Special report no. 59. Condition of winter grain; progress of cotton planting, and estimates of cereals of 1882, with freight rates of transportation companies, May, 1883. 1883. 65 pp.

Special report no. 60. Acreage of spring grain and cotton; condition of winter wheat, and European grain prospects, with freight rates of transportation companies, June, 1883. 1883. 56 pp.

Special report no. 61. Area of corn, potatoes, and tobacco, and condition of growing crops in U. S. and Europe, with report on rates of transportation, July, 1883. 1883. 48 pp.

Special report no. 64. Report on condition of crops, "American competition," and freight rates of transportation companies, August, 1883. 1883. 80 pp.

Special report no. 65. Report on condition of crops and on freight rates of transportation companies, September, 1883. 1883. 55 pp.

New series, report no. 1. Condition of crops, yield of grain per acre, and freight rates of transportation companies, October, 1883. 1883. 28 pp.

New series, report no. 2. Yield of crops per acre; progress of sorghum growing; crops of Europe; and freight rates of transportation companies, November, 1883. 1883. 59 pp.

New series, report no. 3. Crops of year; cereal production in Europe; and freight rates of transportation companies, December, 1883. 1883. 74 pp.

## A27. STATISTICS DIVISION—Continued

## A27.9: | Statistical reports—Continued

22 [V. 22] 1884.

New series, report no. 4. Number and value of farm animals; certain causes affecting wages of farm labor; and freight rates of transportation companies, February, 1884. 1884. 56 pp.

New series, report no. 5. Distribution and consumption of corn and wheat, and rates of transportation of farm products, March,

1884. 1884. 44 pp.

New series, report no. 6. Area of winter grain; condition of farm animals; and freight rates of transportation companies, April, 1884. 1884. 48 pp.

New series, report no. 7. Condition of winter grain; progress of cotton planting; and estimates of cereals of 1883, with freight rates of

transportation companies, May, 1884. 1884. 36 pp.

New series, report no. 8. Acreage of spring grain and cotton; condition of winter wheat; European grain prospects, with freight rates of transportation companies, June, 1884. 1884. 39 pp.

New series, report no. 9. Area of corn, potatoes, and tobacco; condition of growing crops, and rates of transportation, July, 1884. 1884. 59 pp.

New series, report no. 10. Condition of growing crops and rates of

transportation, August, 1884. 1884. 36 pp.

New series, report no. 11. Condition of crops; wheat in India; and freight rates of transportation companies, September, 1884. 87 pp.

New series, report no, 12. Condition of crops; yield of grain per acre; and freight rates of transportation companies, October, 1884.

1884. 44 pp.

New series, report no. 13. Yield of crops per acre; agriculture in Mexico; and freight rates of transportation companies, November, 1884. 1884. 94 pp.

New series, report no. 14. Crops of year, and freight rates of trans-

portation companies, December, 1884. 1885. 60 pp.

[V. 23.] Reports of Bureau of Statistics of Department of Agriculture, (nos. 15-25, new series) [Jan.-Dec., 1885]; by J. R. Dodge, Statistician, Washington, D. C. 1885.

Contents:

Index. v pp.

New series, report no. 15. Numbers and values of farm animals; cotton crop and its distribution; and freight rates of transportation companies. Jan. and Feb., 1885. 1885. 64 pp.

New series, report no. 16. Distribution and consumption of corn and wheat; consumption of cereals in Europe; and freight rates of transportation companies. Mar., 1885. 1885. 47 pp.

New series, report no. 17. Area of winter grain; condition of farm animals; and freight rates of transportation companies. Apr., 1885. 1885. 80 pp.

New series, report no. 18. Condition of winter grain; progress of cotton planting; wages of farm labor; also, freight rates of transportation companies. May, 1886. 1886. 60 pp.

New series, report no. 19. Acreage of spring grain and cotton; condition of winter wheat; European grain prospects; with freight rates of transportation companies. June, 1885. 1885. 56 pp.

New series, report no. 20. Area of corn, potatoes, and tobacco; condition of growing crops; and rates of transportation. July, 1885. 1885. 64 pp.

New series, report no. 21. Condition of growing crops; international dairy statistics; and rates of transportation. Aug., 1885. 1885. 70 pp.

New series, report no. 22. Condition of crops in America and Europe; and freight rates of transportation companies. Sept., 1885. 1885. 58 pp.

New series, report no. 23. Condition of crops; yield of grain per acre; and freight rates of transportation companies. Oct., 1885. 1885. 55 pp.

New series, report no. 24. Yield of crops per acre; and freight rates of transporta-

tion companies. Nov., 1885. 1885. 54 pp.
New series, report no. 25. Crops of the year; and freight rates of transportation

New series, report no. 25. Crops of the year; and freight rates of transportation companies. Dec., 1885. 1885. 55 pp.

[V. 24.] Reports of Bureau of Statistics of Department of Agriculture, (nos. 26-36) [Jan.-Dec., 1886]; by J. R. Dodge. 1886. 580 pp. Contents:

New series, report no. 26. Numbers and values of farm animals; cotton crop and its distribution; and freight rates of transportation companies. Jan. and Feb., 1886. 1886. pp. 1-56.

New series, report no. 27. Distribution and consumption of corn and wheat; production of European wheat; and freight rates of transportation companies. Mar., 1886. 1886. pp. 57-108.

24

**2**3

### **Tables**

Classification no.

### A27. STATISTICS DIVISION—Continued

### **A27.9**:

## Statistical reports—Continued

24

[V. 24.] Reports of Bureau of Statistics of Department of Agriculture, etc.—Continued

Contents—Continued

New series, report no. 28. Area of winter grain; condition of farm animals; and freight rates of transportation companies. Apr., 1886. 1886. pp. 109-170.

New series, report no. 29. Condition of winter grain; progress of cotton planting; and freight rates of transportation companies. May, 1886. 1886. pp. 171-218. New series, report no. 30. Acreage of spring wheat and cotton; condition of winter grain; world's supply of wheat; with freight rates of transportation companies. June, 1886. 1886. pp. 219-263.

New series, report no. 31. Area of corn, potatoes, and tobacco; condition of grow-

ing crops; and freight rates of transportation companies. July, 1886. 1886. pp.

265–308.

New series, report no. 32. Condition of growing crops; and freight rates of transportation companies. Aug., 1886. 1886. pp. 309-360.

New series, report no. 33. Condition of crops in America and Europe; and freight rates of transportation companies. Sept., 1886. 1886. pp. 361-419.

New series, report no. 84. Condition of crops; yield of grain per acre; and freight rates of transportation companies. Oct., 1886. 1886. pp. 421-460.

New series, report no. 35. Yield of crops per acre; and freight rates of transportation companies. Nov., 1886. 1886. pp. 461-532.

New series, report no. 86. Crops of the year; and freight rates of transportation companies. Dec., 1886. 1886. pp. 538-580.

25

[V. 25.] Reports of Bureau of Statistics of Department of Agriculture, (nos. 37-47) [Jan.-Dec., 1887]; by J. R. Dodge. 1888. 7+662 pp. Contents:

Index. 7 pp.

New series, report no. 37. Numbers and values of farm animals; cotton crop and its distribution; and freight rates of transportation companies. Jan. and Feb., 1887. 1887. pp. 1-56.

New series, report no. 38. Distribution and consumption of corn and wheat; wheat product of the world; and freight rates of transportation companies. Mar., 1887.

1887. pp. 57-100.

New series, report no. 39. Condition of winter grain; condition of farm animals; and freight rates of transportation companies. Apr., 1887. 1887. pp. 101-164. New series, report no. 40. Condition of winter grain; progress of cotton planting; and freight rates of transportation companies. May, 1887. 1887. pp. 165-218.

New series, report no. 41. Acreage of wheat and cotton; condition of cereal crops; with freight rates of transportation companies. June, 1887. 1887. pp. 219-278. New series, report no. 42. Area of corn, potatoes, and tobacco; condition of growing crops; and freight rates of transportation companies. July, 1887. 1887. pp. 279-326.

New series, report no. 43. Condition of growing crops; and freight rates of trans-

portation companies. Aug., 1887. 1887. pp. 327-406.

New series, report no. 44. Condition of crops in America and Europe; and freight rates of transportation companies. Sept., 1887. 1887. pp. 407-470.

New series, report no. 45. Condition of crops; yield of grain per acre; labor and prices in Mexico; and freight rates of transportation companies. Oct., 1887. 1887. pp. 471–558. New series, report no. 46. Yield of crops per acre; and freight rates of transpor-

tation companies. Nov., 1887. 1887. pp. 559-614.

New series, report no. 47. Crops of the year; and freight rates of transportation companies. Dec., 1887. 1887. pp. 615-662.

26

Reports of Bureau of Statistics of Department of Agriculture, (nos. 48-58) [Jan.-Dec., 1888]; by J. R. Dodge. 1889. 7+592 pp. Contents:

Index. 7 pp. New series, report no. 48. Numbers and values of farm animals; and freight rates of transportation companies. Jan. and Feb., 1888. 1888. pp. 1-64.

New series, report no. 49. Distribution and consumption of corn and wheat; freight rates of transportation companies. Mar., 1888. 1888. pp. 65-96.

New series, report no. 50. Condition of winter grain; condition of farm animals; and freight rates of transportation companies. Apr., 1888. 1888. pp. 97-152.

New series, report no. 51. Condition of winter grain; progress of cotton planting; wages of farm labor; also freight rates of transportation companies. May, 1838. 1888. pp. 153-200.

New series, report no. 52. Acreage of wheat and cotton; condition of cereal crops: with freight rates of transportation companies. June, 1888. 1888. pp. 201-259. New series, report no. 53. Area of corn, potatoes, and tobacco; condition of growing crops; and freight rates of transportation companies. July, 1888. 1888. pp.

261-823. New series, report no. 54. Condition of growing crops; and freight rates of transportation companies. Aug., 1888. 1888. pp. 325-380.

New series, report no. 55. Condition of crops in America and Europe; and freight rates of transportation companies. Sept., 1888. 1888. pp. 381-444.

New series, report no. 56. Condition of crops; yield of grain per acre; and freight rates of transportation companies. Oct., 1888. 1888. pp. 445-500.

New series, report no. 57. Yield of crops per acre; and freight rates of transports. tion companies. Nov., 1888. 1888. pp. 501-552.

New series, report no. 58. Crops of the year; and freight rates of transportation companies. Dec., 1888. 1888. pp. 553-592.

## A27. STATISTICS DIVISION—Continued

#### A27.9: | Statistical reports—Continued

27 | [V. 27.] Reports of Bureau of Statistics of Department of Agriculture (nos. 59-69) [Jan.-Dec., 1889]. 1890. 7+548 pp. Contents:

Index. 7pp.

New series, report no. 59. Numbers and values of farm animals; and freight rates of transportation companies. Jan. and Feb., 1889. 1889. pp. 1-48.

New series, report no. 60. Distribution and consumption of corn and wheat; and freight rates of transportation companies. Mar., 1889. 1889. pp. 49-88.

New series, report no. 61. Condition of winter grain; condition of farm animals; and freight rates of transportation companies. Apr., 1889. 1889. pp. 89-186.

New series, report no. 62. Condition of winter grain; progress of cotton planting; also, freight rates of transportation companies. May, 1889. 1889. pp. 137-188. New series, report no. 63. Acreage of wheat and cotton; condition of cereal crops; and freight rates of transportation companies. June, 1889. 1889. pp. 189-236.

New series, report no. 64. Area of corn, potatoes, and tobacco; condition of growing crops; and freight rates of transportation companies. July, 1889. 1889. pp. 237-276.

New series, report no. 65. Condition of growing crops; and freight rates of transportation companies. Aug., 1889. 1889. pp. 277-382.

New series, report no. 66. Condition of crops in America and Europe; and freight

rates of transportation companies. Sept., 1889. 1889. pp. 383-392.

New series, report no. 67. Condition of crops; yield of grain per acre; and freight rates of transportation companies. Oct., 1889. 1889. pp. 393-435.

New series, report no. 68. Yield of crops per acre; and freight rates of transporta-

tion companies. Nov., 1889. 1889. pp. 437-484.

New series, report no. 69. Crops of the year; and freight rates of transportation companies. Dec., 1889. 1889. pp. 485-548.

28 [V. 28.] Reports of Bureau of Statistics of Department of Agriculture (nos. 70-80) [Jan.-Dec., 1890]. 1891. viii+652 pp. Contents:

Index. viii pp.

New series, report no. 70. Numbers and values of farm animals; and freight rates of transportation companies. Jan. and Feb., 1890. 1890. pp. 1-64.

New series, report no. 71. Distribution and consumption of corn and wheat; and freight rates of transportation companies. Mar., 1890. 1890. pp. 65-116.

New series, report no. 72. Condition of winter grain; condition of farm animals; and freight rates of transportation companies. Apr., 1890. 1890. pp. 117-174. New series, report no. 73. Condition of winter grain; progress of cotton planting; wages of farm labor; also, freight rates of transportation companies. May, 1890.

1890. pp. 175–230. New series, report no. 74. Acreage of wheat and cotton; condition of cereal crops; and freight rates of transportation companies. June, 1890. 1890. pp. 231-310.

New series, report no. 75. Area of corn, potatoes, and tobacco; condition of growing crops; and freight rates of transportation companies. July, 1890. 1890. pp. 311-374. New series, report no. 76. Condition of growing crops; and freight rates of transportation companies. Aug., 1890. 1890. pp. 375-430.

New series, report no. 77. Condition of crops in America and Europe; and freight

rates of transportation companies. Sept., 1890. 1890. pp. 431-494.

New series, report no. 78. Condition of crops; yield of grain per acre; and freight rates of transportation companies. Oct., 1890. 1890. pp. 495-542.

New series, report no. 79. Yield of crops per acre; and freight rates of transportation companies. Nov., 1890. 1890. pp. 543-590.

New series, report no. 80. Crops of the year; and freight rates of transportation companies. Dec., 1890. 1891. pp. 591-652.

**29** [V. 29.] Reports of Bureau of Statistics of Department of Agriculture (nos. 81–91) [Jan.–Dec., 1891]. 9+698 pp.

Contents: Index. 9 pp.

New series, report no. 81. Numbers and values of farm animals; and freight rates of transportation companies. Jan. and Feb., 1891. 1891. pp. 1-56.

New series, report no. 82. Distribution and consumption of corn and wheat; and freight rates of transportation companies. Mar., 1891. 1891. pp. 57-104.

New series, report no. 83. Condition of winter grain; condition of farm animals; and freight rates of transportation companies. Apr., 1891. 1891. pp. 105-158. New series, report no. 84. Condition of winter grain; progress of cotton planting;

also, freight rates of transportation companies. May, 1891. 1891. pp. 159-238. New series, report no. 85. Acreage of wheat and cotton; condition of cereal crops; and freight rates of transportation companies. June, 1891. 1891. pp. 239-302.

New series, report no. 86. Area of corn, potatoes, and tobacco; condition of growing crops; and freight rates of transportation companies. July, 1891. 1891. pp. 303-374.

New series, report no. 87. Condition of growing crops; and freight rates of transportation companies. Aug., 1891. 1891. pp. 375-437.

New series, report no. 88. Condition of crops in America and Europe; and freight rates of transportation companies. Sept., 1891. 1891. pp. 439-518.

New series, report no. 89. Condition of crops; yield of grain per acre; and freight rates of transportation companies. Oct., 1891. 1891. pp. 519-590. New series, report no. 90. Yield of crops per acre; and freight rates of transpor-

tation companies. Nov., 1891. 1891. pp. 591-634.

New series, report no. 91. Crops of the year; and freight rates of transportation companies. Dec., 1891. 1892. pp. 635-698.

#### A27. STATISTICS DIVISION—Continued

### A27.9:

30

## Statistical reports—('ontinued

[V. 30.] Reports of Bureau of Statistics of Department of Agriculture (nos. 92-100) [Jan.-Dec., 1892]. 1892. vii + 416 pp.

Contents: Index. vii pp.

New series, report no. 92. Numbers and values of farm animals; and freight rates of transportation companies. Jan. and Feb., 1892. 1892. pp. 1-44.

New series, report no. 93. Distribution and consumption of corn and wheat; and

freight rates of transportation companies. Mar., 1892. 1892. pp. 45-92. New series, report no. 94. Condition of winter grain; condition of farm animals; and freight rates of transportation companies. Apr., 1892. 1892. pp. 93-147.

New series, report no. 95. Condition of winter grain; progress of cotton planting; also freight rates of transportation companies. May, 1892. 1892. pp. 149-196. New series, report no. 96. Acreage of wheat and cotton; condition of cereal crops; and freight rates of transportation companies. June, 1892. 1892. pp. 197-244.

New series, report no. 97. Area of corn, potatoes, and tobacco; and condition of growing crops. July, 1892. 1892. pp. 245-272. Special report of Statistician, July, 1892; foreign crop reports and miscellaneous in-

formation; freight rates of transportation companies. 1892. pp. 273-296. New series, report no. 98. Report of the Statistician, Aug., 1892. Primary prices of farm products; foreign trade in agricultural products; European crop prospects for Aug.; consular notes on foreign agriculture; freight rates of transportation companies. 1892. pp. 297-327.

[New series, report no. 98A.] Condition of growing crops, Aug., 1892. 1892. 16 pp.

Same, Sept., 1892. 1892. 20 pp. [New series, report no. 98B.] Condition of growing crops and yield of grain per

[New series, report no. 98C.] Coacre. Oct., 1892. 1892. 23 pp. New series, report no. 99. Report of Statistician, Sept. and Oct., 1892. Farm prices

in two centuries; ramie machine trials in New Orleans; Indian wheat crop of 1892; notes of domestic and foreign trade and industry; European crop report for

Sept.; freight rates of transportation companies. 1892. pp. 829-376. [New series, report no. 99A.] Yield of crops per acre; and product compared with

last year. Nov., 1892. 1892. 16 pp.

New series, report no. 100. Report of Statistician, Nov. and Dec., 1892. Agricultural production and distribution of world; tests of averages of condition; address of Statistician at annual meeting of P[atrons] of H[usbandry]; reciprocity and agricultural exports; European crop report for Dec., 1892; and freight rates of transportation companies. 1892. pp. 377-416.

[New series, report no. 100A.] Crops of the year, Dec., 1892. 1893. 28 pp.

[V. 31.] Reports of Bureau of Statistics of Department of Agriculture (nos. 101-111) [Jan.-Dec., 1893]. 1894. x+521 pp.

Contents:

Index. x pp. New series, report no. 101. Report of Statistician, Jan. and Feb., 1898. Agriculture in France; Hungarian milling; canning industry; tobacco experiments in Texas; European crop report for Feb.; farm animals of the world; freight rates of transportation companies. 1893. pp. 1-71.
[New series, report no. 101A.] Number and value of farm animals; and cotton distribution. Jan.-Feb., 1893. 1893. 20 pp.

New series, report no. 102. Report of Statistician, Mar. 1893. Agriculture in Alaska; foreign official crop estimates; European crop report; wheat crop of the world; freight rates of transportation companies. 1893. pp. 78-95.

[New series, report no. 102A.] Distribution and consumption of corn and wheat,

Mar., 1893. 1898. 16 pp.

New series, report no. 108. Report of Statistician, Apr., 1898. 1893. [Contents: Condition of winter grain; notes concerning wheat; condition of farm animals; Euro-

pean crop report for March, 1893; transportation rates.] pp. 97-140. New series, report no. 104. Report of Statistician, May, 1893. 1893. [Contents: Condition of winter grain; mowing lands and pastures; progress of cotton planting; spring plowing; changes in crop areas; temperature and rainfall; notes from reports of State agents; the cotton crop of India for 1892-93; European crop report for May, 1898: transportation rates. 1 pp. 141-178.

New series, report no. 105. Report of Statistician, June, 1898. 1898. [Contents: Crop report for June; agriculture in the Caucasus; the customs tariff in Martinique; agricultural produce statistics of the United Kingdom; transportation rates.]

pp. 179–221.

New series, report no. 106. Report of Statistician, July, 1893. 1898. [Contents: Crop report for July; statistics of Ontario; foreign import duties on wheat; notes on foreign agriculture; use of maize of United States in Mexico; transportation rates.]

New series, report no. 107. Report of Statistician, Aug., 1898. [Contents: Crop report for Aug.; notes on foreign agriculture; wheat crop of India for 1893; production of corn in New South Wales; domestic and transatlantic freight rates.]

New series, report no. 108. Report of Statistician, Sept., 1893. 1893. [Contents: Agricultural returns of Great Britain; Ontario crop report; crops in Germany; notes from United States consular officers in Scotland, France, Germany, Belgium, Cochin-China, and Ontario: domestic and transatlantic freight rates.] pp. 823-369.

New series, report no. 109. Report of Statistician, Oct., 1893. 1893. [Contents: Notes from reports of State agents; imports of hay into United States; cereal crops of France and Italy for 1893; production, commerce, and consumption of wine in Italy; corn as feed for horses in Germany; reports from consular officers relating to crops in Germany, Scotland, New Brunswick, and Ontario; domestic and transatlantic freight rates.] pp. 371-414.

31

### A27. STATISTICS DIVISION—Continued

#### Statistical reports—Continued A27.9:

[V. 31.] Reports of Bureau of Statistics of Department of Agriculture, etc.—Continued

Contents—Continued

New series, report no. 110. Report of Statistician, Nov., 1893. [Contents: Notes from reports of State agents; imports of American wheat flour into Europe; hop crop of England for 1893; beet sugar production of Europe for 1893–94; agriculture in Great Britain and Ireland; notes from United States consular officers regarding crops in Ontario, Spain, Cochin-China, Korea, Scotland, and Egypt; domestic and

transatlantic freight rates.] pp. 415-458. New series, report no. 111. Report on the crops of the year. Dec., 1893. 1894. pp.

459-521.

32 | [V. 32.] Reports of Bureau of Statistics of Department of Agriculture (nos. 112–122) [Jan.–Dec.] 1894. 1895. xiii + 778 pp.

Contents:

Index. xiii pp. New series, report no. 112. Report of Statistician, Jan.-Feb., 1894. Report on farm animals; notes from reports of State agents; the cotton crop; agriculture in China: the sugar crop of the world; Germany as an importer of American agricultural products; the canning industry; notes on foreign agriculture; domestic and

transatlantic freight rates. 1894. pp. 1-68. New series, report no. 113. Report of Statistician, Mar., 1894. Distribution and consumption of corn and wheat; supply and distribution of wheat for twentyfive years; wheat crop of the world; wholesale prices of principal agricultural products in all sections of U.S.; expense of raising wheat and corn; production of honey and beeswax; poultry and eggs; dairy products; official statistics of foreign crops; the world's wool supply; notes from U. S. consular officers and European agents; domestic and transatlantic freight rates. 1894. pp. 69-156. New series, report no. 114. Report of Statistician, Apr., 1894. Condition of winter

grain; wheat production in census years since 1869; farm animals, condition and losses; increase and decrease in number and value of farm animals, 1880-1890; agricultural developments in Bosnia and Herzegovina; health of the people; cotton crop of India for 1893-94; reports of U.S. consular officers; transportation

rates, 1894. pp. 157-218.

New series, report no. 115. Report of Statistician, May, 1894. Temperature and rainfall; condition of winter grain; changes in crop area; world's supply and consumption of cotton; fruit-crop prospects in the U.S., May 1, 1894; agricultural production of Mexico for 1889 and 1892; agricultural statistics of Uruguay; Austrian cereal crops for 1893; Japanese cereal crops for 1893; European crop

report; notes from U.S. consular officers; transportation rates. pp. 219-294. New series, report no. 116. Report of Statistician, June, 1894. Crop report for June; tariff rates on principal cereals and flour in European countries; notes on foreign agriculture; notes from U.S. consular officers; climate of Mexico; Mex-

ican railways; transportation rates. 1894. pp. 295–394.

New series, report no. 117. Report of Statistician, July, 1894. Crop report for July; notes on foreign agriculture; reports of U.S. consular officers; transportation

rates. 1894. pp. 395-444.

New series, report no. 118. Report of Statistician, August, 1894. Crop report for August; notes on foreign agriculture; production and consumption of rice in U.S.; commerce between U.S. and Mexico for years 1873, 1878, 1883, 1888, and 1893; transportation rates. 1894. pp. 445-536.

New series, report no. 119. Report of Statistician, Sept., 1894. Crop report for Sept.; stock hogs; notes from reports of State agents; table showing condition of crops Sept. 1, 1894; urban population in South; notes on foreign agriculture;

transportation rates. 1894. pp. 537-604.

New series, report no. 120. Report of Statistician, Oct., 1894. Crop report for Oct.; notes from reports of State agents; table showing yield per acre and condition by States, Oct. 1, 1894; rice production in U.S.; notes on foreign agriculture; transportation rates. 1894. pp. 605-660.

New series, report no. 121. Report of Statistician, Nov., 1894. Nov. crop report notes from reports of State agents; table showing estimated yield per acre of certain crops Nov. 1, 1894; notes on foreign agriculture; transportation rates.

1894. pp. 661-702.

New series, report no. 122. Report of Statistician, Dec., 1894. Crops of the year; crop review; principal crops of 1894; farm prices and market quotations; agricultural exports and imports; official statistics of foreign crops; transportation rates. 1894. pp. 703-778.

[V. 33.] Reports of Bureau of Statistics of Department of Agriculture (nos. 123–133) [Jan.–Dec., 1895]. 1896. v. p.

33

New series, report no. 123. Report of Statistician, Jan.-Feb., 1895. Farm animals; cotton crop; live stock in Great Britain and Ireland; cotton crop of India for 1894; a French congress on popular credit; wheat crop of Victoria (Australia); notes on foreign agriculture; Jan. transportation rates; Feb. transportation rates. 1895. pp. 1-58.

New series, report no. 124. Report of Statistician, Mar., 1895. Distribution and consumption of wheat in U.S.; consumption of wheat per capita in U.S.; wheat crop of world; prices of wheat since 1865; wholesale prices of principal agriculture products, etc.; report of European agent; transportation rates. 1895. pp. ii +59-106.

### A27. STATISTICS DIVISION—Continued

## A27.9:

### Statistical reports—Continued

33 [V. 33.] Reports of Bureau of Statistics of Department of Agriculture, etc.—Continued

Contents—Continued New series, report no. 125. Report of Statistician, Apr., 1895. Condition of winter wheat; farm animals; number of families occupying farms owned, free, and unincumbered; amount of incumbrance on farms; health of people; production, imports, and exports of potatoes; production and prices of food in Italy; potatoes and hay in Great Britain in 1894; cotton crop of India for 1894–95; rice crop of India for 1894; report of European agent; transportation charges. 1895. pp. 11 + 107 - 168.

New series, report no. 126. Report of Statistician, May, 1895. Condition of winter grain; condition of cotton crop, 1894; prices of wheat in England; report of European agent; notes on foreign agriculture; transportation charges. 1895. pp. ii + 169 - 230.

New series, report no. 127. Report of Statistician, June, 1895. Crop report for June; cotton, increase and decrease of acreage 1895; temperature and rainfall; report of European agent; notes on foreign agriculture; transportation charges. 1895. pp. ii + 231 - 284.

New series, report no. 128. Crop report for July, 1895; report of European agent, transportation rates. n. t. p. 23 pp.

New series, report no. 129. Crop report for August, 1895; report of European agent; transportation rates. n. t. p. 24 pp.

New series, report no. 130. Crop report for September, 1895; report of European agent; transportation rates. n. t. p. 24 pp.

New series, report no. 131. Crop report for October, 1895; report of European agent; transportation rates. n. t. p. 20 pp.

New series, report no. 132. Crop report for November, 1896; transportation rates. n. t. p. 14 pp.

New series, report no. 133. Crop report for December, 1895; Report of European agent; transportation charges. n. t. p. 86 pp. Index, 9 pp.

34

[V. 34.] Reports of Division of Statistics of Department of Agriculture (nos. 134–144) [Jan.–Dec.] 1896. 1897. v. p.

Contents: Index, 6 pp.

New series, report no. 134. Prices and numbers of farm animals; report of

European agent. n. t. p. 8 pp. New series, report no. 135. Crop report for March, 1896. n. t. p. 16 pp. New series, report no. 135. Same, summary of cotton report for March, 1896.

n. t. p. 4 pp. New series, report no. 136. Crop report for April, 1896. n. t. p. 7 pp.
New series, report no. 137. Crop report for May, 1896. n. t. p. 8 pp.
New series, report no. 138. Crop report for June, 1896. n. t. p. 4 pp.
New series, report no. 139. Crop report for July, 1896. n. t. p. 8 pp.
New series, report no. 140. Crop report for August, 1896. n. t. p. 8 pp.
New series, report no. 141. Crop report for September, 1896. n. t. p. 7 pp.
New series, report no. 142. Crop report for October, 1896. n. t. p. 7 pp.
New series, report no. 143. Crop report for November, 1896. n. t. p. 4 pp.
New series, report no. 144. Crop report for December, 1896. n. t. p. 16 pp.

35

[V. 35.] Publications of Division of Statistics of Department of Agriculture, Reports nos. 145 to 155; Circulars nos. 5-8. 1898. v. p. Contenta:

Index. vii pp. New series, report no. 145. Crop report for Jan.-Feb., 1897. n. t. p. 7 pp. New series, report no. 146. Crop report for March, 1897. n. t. p. 4 pp. New series, report no. 147. Crop report for April, 1897. n. t. p. 8 pp. New series, report no. 148. Crop report for May, 1897. n. t. p. 4 pp. New series, report no. 149. Crop report for June, 1897. n. t. p. 4 pp. New series, report no. 150. Crop report for July, 1897. n. t. p. 8 pp. New series, report no. 151. Crop report for August, 1897. n. t. p. 7 pp. New series, report no. 152. Crop report for September 1897. n. t. p. 4 pp. New series, report no. 152. Crop report for September, 1897. n. t. p. 4 pp. New series, report no. 153. Crop report for October, 1897. n. t. p. 4 pp. New series, report no. 154. Crop report for November, 1897. n. t. p. 4 pp. New series, report no. 155. Crop report for December, 1897. n. t. p. 4 pp. Circular No. 5. Local taxation as affecting farms. 1897. 16 pp. Circular No. 6. Cereal crops of 1894. n. t. p. 12 pp. Circular No. 6. Cereal crops of 1896. n. t. p. 12 pp. Circular No. 7. Cotton crop of 1896. n. t. p. 4 pp. Circular No. 8. Cotton crops of 1896-97. n. t. p. 14 pp.

**36** 

[V. 36] No. 156. Report on condition of winter grain on April 1, 1899, and losses of farm an mals during year ending Mar. 31, 1899, with statistics of foreign crops. n. t. p. 38 pp. [Discontinued.]

### **A27.9**a: Statistical reports (separates)

F94 | Fruit-crop prospects in U. S. May 1, 1894. n. t. p. pp. 251-253. [Reprinted from New series, report no. 115 of Statistician.]

## **138. VEGETABLE PHYSIOLOGY AND PATHOLOGY** DIVISION

[Formerly Division of Vegetable Pathology. Merged into Bureau of Plant Industry July 1, 1901. See A19. For historical sketch of Division see Yearbook 1897 (A1.10:897), p. 99.]

Classification no. A28.1: | 886

# Annual reports

REPORT OF THE MYCOLOGIST 1886 (Scribner) [1]+95-138 pp. 8 pl. 3 maps. 1 diagram. (Also in A1.1:886, p. 95.)

REPORT OF CHIEF OF SECTION OF VEGETABLE PATHOLOGY

1887 (Scribner), 323-397 pp. 17 pl. (Also in A1.1:887, p. 323.) 887 888

1888 (Galloway), iv+325-404+iii pp. 19 pl. 1 map. (Also in A1.1:888, p. 325.)

1889 (Galloway), [1]+397-432 pp. 2 pl. (Also in A1.1:889, p. 397.) 889

REPORT OF CHIEF OF DIVISION OF VEGETABLE PATHOLOGY

890 1890 (Galloway), [1]+398-408 pp. 5 pl. (Also in A1.1:890, p. 393.) 1891 (Galloway), [1]+359-378 pp. 3 pl. (Also in A1.1:891, p. 359.)
1892 (Galloway), [1]+215-246 pp. 4 pl. (Also in A1.1:892, p. 215.) 891

892

1893 (Galloway), iii+245-276 pp. (Also in A1.1:893, p. 245.) 893

1894 (Galloway). (In A1.1:894, p. 143.)

REPORT OF CHIEF OF DIVISION OF VEGETABLE PHYSIOLOGY AND PATHOLOGY 1895 (Galloway). (In A1.1:895, p. 169.)

1896 (Galloway), iii+15-22 pp. (Also in A1.1:896, p. 15.) 896

1897 (Galloway), iii+7-13 pp. (Also in A1.1:897, p. 7.)
1898 (Woods), iii+27-36 pp. (Also in A1.1:898, p. 27.) 897 898

1899 (Galloway),  $iii + 71 - 8\bar{3}$  pp. (Also in A1.1:899, p. 71.) 899

1900 (Galloway), ii +49-58 pp. (Also in A1.1:900, p. 49.) 800

1901 (Woods). [This final report of the division was made through the chief of the Bureau of Plant Industry, forming part of his annual report for 1901. (See A1.1:901, p. 46; also A19.1:901, p. 46.)]

### A28.2: General publications

None issued.

#### **A28.3**: **Bulletins**

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No. 1. Additional evidence on communicability of peach yellows and 1 peach rosette; by Erwin F. Smith. 1891. 65 pp. 39 pl.

No. 2. California vine disease, preliminary report of investigations; by Newton B. Pierce. 1892. 222 pp. 25 pl. 2 charts.

No. 3. Experiments made in 1891 in treatment of plant diseases; by B. T. Galloway. 1892. 76+[1] pp. 8 pl.

No. 4. Experiments with fertilizers for prevention and cure of peach yellows, 1889-92; by Erwin F. Smith. 1893. 197 pp. 33 pl.

No. 5. Pollination of pear flowers; by Merton B. Waite. 1894. 110 pp. 12 pl.

Same, [2d edition.] 1895. 110 pp. 12 pl.

No. 6. Bordeaux mixture as a fungicide; by D. G. Fairchild. 1894. 55 pp. 6 No. 7. Effect of spraying with fungicides on growth of nursery stock; by B. T. Galloway. 1894. 41 pp.

8 No. 8. Principal diseases of citrus fruits in Florida; by Walter T. Swingle and Herbert J. Webber. 1896. 42 pp. 8 pl.

No. 9. Bordeaux mixture, its chemistry, physical properties, and toxic effects on fungi and algæ; by Walter T. Swingle. 1896. 37 pp.

No. 10. Copper sulphate and germination, treatment of seed with copper sulphates to prevent attacks of fungi; by Walter H. Evans. 1896. 24 pp.

No. 11. Legal enactments for restriction of plant diseases, compilation of laws of U. S. and Canada; by Erwin F. Smith. 1896. 45 pp.

12 No. 12. Bacterial disease of tomato, eggplant, and Irish potato; by Erwin F. Smith. 1896. 28 pp. 2 pl.

13 No. 13. Sooty mold of orange and its treatment; by Herbert J. Webber. 1897. 44 pp. 5 pl.

No. 14. Bermuda lily disease, preliminary report of investigations; by 14 Albert F. Woods. 1897. 15 pp.

Classifica-	A28. VEGETABLE PHYSIOLOGY AND PATHOLOGY
tlon nó.	• <b>DIVISION</b> —Continued
A28.3:	Bulletins—Continued
15	No. 15. Some edible and poisonous fungi; by W. G. Farlow. 1898. iii+453-470 pp. 10 pl.
16	[Reprinted from Yearbook, 1897.]  No. 16. Cereal rusts of United States, a physiological investigation; by
17	Mark Alfred Carleton. 1899. 74 pp. 4 pl. No. 17. Wilt disease of cotton, watermelon, and cowpea; by Erwin F.
18	Smith. 1899. 72 pp. 10 pl. No. 18. Physiological rôle of mineral nutrients; by Oscar Loew. 1899.
19	No. 19. Stigmonose: a disease of carnations and other pinks; by Albert F.
20	Woods. 1900. 30 pp. 3 pl.  No. 20. Peach leaf curl, its nature and treatment; by Newton B. Pierce.
21	No. 21. Two diseases of red cedar, caused by Polyporus juniperinus n. sp. and Polyporus carneus nees; preliminary report; by Hermann von
22	Schrenk. 1900. 22 pp. 7 pl. No. 22. Xenia, or immediate effect of pollen, in maize; by Herbert J. Webber. 1900. 44 pp. 4 pl.
23	No. 23. Spot disease of violet (Alternaria violæ n. sp.); by P. H. Dorsett. 1900. 16 pp. 7 pl.
24	No. 24. Basis for improvement of American wheats; by Mark Alfred Carleton. 1900. 87 pp. 11 pl.
25	No. 25. Some diseases of New England conifers, preliminary report; by Hermann von Schrenk. 1900. 56 pp. 15 pl. No. 26. Wakker's hyacinth germ Pseudomanas hyacinthi (Wakker);
26	by Erwin F. Smith. 1901. 45 pp. 1 pl.
27	Same, 56th Cong., 1st sess., H. doc. 694; serial no. 4000. No. 27. Wilt disease of cotton and its control; by W. A. Orton. 1900. 16 pp. 4 pl.
28	No. 28. Cultural characters of Pseudomonas hyacinthi, Ps. campestris, Ps. phaseola, and Ps. stewarti, four one-flagellate yellow bacteria parasitic on plants; by Erwin F. Smith. 1901. 153 pp.
29	No. 29. Plant breeding; by Willet M. Hays. 1901. 72 pp. 6 pl.
A28.4:	Circulars
`1	[No. 1.] Treatment of downy grape mildew and black-rot [of grape].  [May, 1886.] n. t. p. 3 pp.
· 2 · 3	[No. 2. Grapevine mildew and black-rot.] May 11, 1886. n. t. p. 3 pp. No. 3. Treatment of downy mildew and black-rot of grape; by Norman J. Colman. April, 1887. 2 pp. 4°.
٠ 4	No. 4. Treatment of potato and tomato for blight and rot; by F. Lamson-Scribner. July 2, 1887. [3] pp. 4°.
√ 5	No. 5. Fungicides, or remedies for plant diseases; by F. Lamson-Scribner.  Apr. 25, 1888. n. t. p. 10 pp.
6	No. 6. Treatment of black-rot of grape; by B. T. Galloway. n. d. n. t. p. 3 pp.
<b>7</b> 8	No. 7. Grape-vine diseases; by B. T. Galloway. n. d. n. t. p. [4] pp. No. 8. Experiments in treatment of pear leaf-blight and apple powdery mildew; [by B. T. Galloway]. n. p. [1889] 11 pp.
~ 9	No. 9. Root-rot of cotton, circular of inquiry; by J. M. Rusk. n. d. n. t. p. [4] pp.
10	No. 10. Treatment of nursery stock for leaf-blight and powdery mildew; by B. T. Galloway. 1891. 8 pp.
′ 11	No. 11. [Questions regarding black-rot, downy mildew, and anthracnose of grape; by Edwin Willits.] n. d. (Circ.)
12	No. 12. [Questions asked and specimens of straw and stubble of wheat, oats, rye, and barley solicited; by J. M. Rusk.] n. d. (Circ.)
. 13	No. 13. [Letter of inquiry relative to leaf curl of peach trees; by Edwin Willits.] Nov. 25, 1893. [3] pp. 4°
14	No. 14. [Letter of inquiry relative to grain rusts, requesting specimens of rusted wheat, oats, rye, and barley; by Chas. W. Dabney.] Feb. 23, 1894. (Circ.)

## **Tables** A28. VEGETABLE PHYSIOLOGY AND PATHOLOGY Classifica-**DIVISION**—Continued tion no. **A28.4**: Circulars—Continued No. 15. Treatment for sooty mold of orange; by H. J. Webber. Jan. 2, 15 1895. n. t. p. 4 pp. No. 16. Danger of introducing a Central American coffee disease into 16 Hawaii; by Walter T. Swingle. July 26, 1898. 4 pp. √ 17 No. 17. New spraying devices; by B. T. Galloway. April 5, 1899. n. t. p. No. 18. New wheat industry for semi-arid west; by Mark Alfred Carleton. 18 June 28, 1901. n. t. p. 8 pp. A28.5: Journal of mycology [Devoted to study of fungi, especially in their relation to plant diseases.] V. 1-4. (Not Government publications.) QUARTERLY BULLETIN. 5 | V. 5. Nos. 1-[4]. Mar., June, Sept., [Dec.], 1889. v+5-249 pp. 14 p. Periodical Bulletin. V. 6. Nos. 1-4. May, Sept., 1890; Jan., Apr., 1891. iv--207 pp. 18 pl. 7 V. 7. Nos. 1-4. Sept., 1891; May, 1892; May, 1893; Aug., 1894. v+ iii+478 pp. 38 pl. [Discontinued.] A28.5a: Journal of mycology (separates) [A few of the more important papers contained in the volumes were issued separately.] A29. WEATHER BUREAU [For historical sketch of Bureau, see Yearbook, 1897 (A1.10:897), p. 59.]

### A29.1: | Annual reports [From 1891 to 1895 the report was in two parts, the administrative, which was printed as part of the Annual Report of the Secretary of Agriculture, and also issued separately in pamphlet form, and the "Meteorological data," a continuation of the series issued by t Signal Office, War Dept., bound in quarto cloth volumes, Beginning with 1896, the two were combined in one volume, an abbreviation of the administrative portion also appearing in the Secretary's report and in a separate pamphlet, 8°] 8911 1891 [Pt. 1]. Special report of Chief of Weather Bureau to Secretary of Agriculture, [July to Oct.] 1891. 1891. 26 pp. 1891 [Pt. 2]. [Administrative] report of Chief of Weather Bureau for 891° 1891; by Mark W. Harrington. 1892. iii + 539 - 631 + iii pp. 4 pl. (Also in A1.1: 891, p. 539.) 1891 [Pt. 3]. Report of Chief of Weather Bureau, 1891-92. [Meteorolog-8913 ical tables, 1891 and 1892.] 1893. 528 pp. 4 pl. 4° (Calendar Same, 52d Cong. 2d sess., II. mis. doc. 107, serial no. 3126. 892 1892. [Administrative] report of Chief of Weather Bureau for 1892; by Mark W. Harrington. 1893. iv 4-551-626+ii pp. (Calendar year.) (Also in A1.1: 892, p. 551.) [For meteorological tables, 1892 (calendar year), sec A29.1:8913.] 893i[Administrative] report of Chief of Weather Bureau for 1893 [Pt. 1]. 1893; by Mark W. Harrington. 1894. iii+89-122 pp. 4 pl. (Also in A1.1: 893, p. 89.) 1893 [Pt. 2]. Report of Chief of Weather Bureau, 1893. [Meteorolog-8932 ical tables, 1893 (calendar year).] 1894. 319 pp. 894 1894. Report of Chief of Weather Bureau, 1894. [Meteorological tables, 1894 (calendar year).] 1895. 288 pp. 4° Same, 53d Cong., 3d sess., H. mis. doc. 88; serial no. 3339. [For administrative report (fiscal year) see A1.1:894, p. 77.] 895 Report of Chief of Weather Bureau for 1895, by Willis L. Moore.

1895. Report of Chief of Weather Bureau for 1895, by Willis L. Moore. 1895. iii+65-96 pp. (Also in A1.1:895, p. 65.)

[For meteorological tables, 1895 (calendar year), see A29.1:896.]

Tables	
Classifica- tion no.	A29. WEATHER BUREAU—Continued
A29.1:	Annual reports—Continued
896	1896. Report of Chief of Weather Bureau, 1895-96 (fiscal year). [With meteorological tables, 1895 (calendar year).] 1895. xl+266 pp. 8 charts. 4°
	Same, 54th Cong., 1st sess., H. doc. 428; serial no. 3453.  [The administrative portion of the report, rearranged, is also in A1.1:896, p. 243.]
897	1897. Report of Chief of Weather Bureau, 1896-97 (fiscal year). [With meteorological tables, 1896 (calendar year).] 1897. x+431 pp. 22+11 charts. 61 pl. 2 il.  Same, 55th Cong., 2d sess., H. doc. 166; serial no. 3670.  [Administrative portion of report, also in Al.1:897, p. 199.]
898	1898. Report of Chief of Weather Bureau, 1897–98 (fiscal year). [With meteorological tables, 1897 (calendar year).] 1899. 338 pp. 7 pl. 21 charts. 9 diagrams. Same, 55th Cong., 3d sess., H. doc. 270; serial no. 3820.
8991	[Administrative portion of report, also in A1.1:898, p. 208.] 1899. Report of Chief of Weather Bureau, 1898-99, vol. 1 (fiscal year).  [With meteorological tables, 1898 (calendar year).] 1900.
899 ²	v+247 pp. 4° Same, vol. 2. [Report on international cloud observations, May 1, 1896, to July 1, 1897; prepared by Frank H. Bigelow.] 1900. 787 pp. 79 charts. 4°
	Same, 56th Cong., 1st sess., H. doc. 660, pts. 1 and 2; serial nos. 3998 and 3999.  [Administrative portion of report, also in A1.1:899, p. 9.]
900	1900. Report of Chief of Weather Bureau, 1899-1900 (fiscal year). [With meteorological tables, 1899 (calendar year).] 1901. 436 pp. 4°
901 ¹	Same, 56th Cong., 2d sess., H. doc. 517; serial no. 4177.  [Administrative portion of report, also in Al.1:900, p. 7.]  1901. Report of Chief of Weather Bureau, 1900–1901 (fiscal year), vol. 1.
801	[With meteorological tables, 1900 (calendar year).] 1901. 318 pp. 4° Same, 57th Cong., 1st sess., H. doc. 19, pts. 1 and 2; serial nos. 4319 and 4320.
901 2	[Administrative portion of report, also in A1.1:901, p. 3.]  Same, v. 2. [Report on barometry of U. S., Canada, and West Indies;
902	by Frank H. Bigelow.] 1902. [1]+1005 pp., 222 charts.  1902. Report of Chief of Weather Bureau, 1901-1902 (fiscal year).  [With meteorological tables, 1901 (calendar year).] 1902.
	xxvii+342 pp. 5 charts.  Same, 57th Cong., 2d sess., H. doc. 19; serial no. 4485.  [Administrative portion of report, also in A1.1:902, p. 3.]
<b>A 29. 1</b> a:	Annual reports (separates)
	[The various series of tables, designated as "parts" in the volumes, are also issued separately.]
A29.2:	General publications
Al 1	Alaska. The climate of Alaska; by Willis L. Moore. 1897. 21. 4°
Ar4	Arid regions. Some climatic features of arid regions; communicated to National Irrigation Congress at its 5th annual session, Phoenix, Ariz., Dec. 15–17, 1896; by Willis L. Moore. 1896. 19 pp. 3 charts.
At61	Atmospheric circulation in tropical cyclones, as shown by movements of clouds; by H. B. Boyer. [1896.] 17 pp. 17 pl.
At6 <sup>2</sup>	Atmospheric survey. U. S. daily atmospheric survey; by W. L. Moore. 1897. n. t. p. 6 pp.
B73   C38	Brazos River flood bulletin. July 15, 1889. (Map.) Charts showing daily river stages in feet. 1892. 19 x 24 in.
C49	Cipher code of wind signal orders, amending instructions to special display men. Nov., 1892. 10 pp.

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Classifica-
                    A29. WEATHER BUREAU—Continued
tion BO.
         General publications—Continued
A29.2:
         Climate and Health (monthly periodical). [Announcing discontinuance
  C61 1
               of publication of Climate and Health.] June 22, 1896. (Circ.)
  C61 <sup>3</sup> 1
         Climatic charts of U. S., 1900. [26 charts bound.]
             [Each chart was originally issued separately.]
         Cloud forms. Description of cloud forms. n. d. (Chart.)
  C621 1
  C62<sup>2</sup>
            Same, 2d edition. n. d.
  C623
            Same, 3d edition. n. d.
  C624
            Same, 4th edition. n. d.
         Current chart of Great Lakes. 1892. Probable currents of Great Lakes
  C93
               [deduced from bottle paper observations]. 1893. 24 x 34 in. (Chart.)
         Cyclones. Development and movement of cyclones, as shown in morning
  C99
               and evening weather maps Apr. 2-6, 1892; prepared by C. F.
               Marvin. 1893. [18] pp. Oblong l. 8°
                   Certain climatic features of two Dakotas; by John P. Finley.
  D14
         Dakotas.
               1893. 206 pp. 89 pl. 4°
            Same, 52d Cong., 1st sess., S. ex. doc. 157; serial no. 2893.
         Dew-point. Tables for obtaining temperature of dew-point, relative
  D51
               humidity, etc. [From instructions to voluntary observers. 1892.
               In A29.12:V88.] 1897. pp. 66-98. (c. t. o.)
         Forecaster and newspaper; by Harvey Maitland Watts. 1901. 22 pp.
  F76
  F92
                Injury and methods of protection from frost; by W. H. Hammon.
               1896. 12 pp. (For revised ed., see A29.3:23.)
  F94
         Fruits. Protection of fruits, vegetables, and other food products, from
               injury by heat or cold during transportation; by Mark W.
               Harrington. Aug. 22, 1894. n. t. p. 7 pp.
  G81 <sup>1</sup>
         Great Lakes. Display of wind signals on Great Lakes. 1895.
               of information.) 13 pp. 1 pl.
   G81<sup>2</sup>
            Same. 1896. 18 pp. 1 pl.
   G81<sup>3</sup>
         Great Lakes. Wreck chart of Great Lakes. 1886-91.
                                                               (Broadside.)
   G814
            Same. 1886–93. (Broadside.)
   G815 | Great Lakes. Wrecks which occurred on Great Lakes Dec. 17, 1885, to
               Nov. 15, 1893. 1894. 22 pp.
   G816
         Great Lakes. Wrecks and casualties on Great Lakes during 1895, 1896,
               1897; by Norman B. Conger. 1898. 23 pp.
   G817 Great Lakes. Wreck and casualty chart of Great Lakes. 1894. (Broad-
               side.)
   G818 | Great Lakes. Section map of Great Lakes. [1892.] Chart 19 x 24 inches,
   H94 Hurricane of Aug. 13-16, 1901, on Louisiana and Mississippi coasts.
               Special report on. [1901.] n.t.p. 6 pp.
   In8
         [International symbols recommended for use by Meteorological Congress,
               Munich, 1892; by Mark W. Harrington.] Jan. 1, 1894. n. t. p. 5 pp.
        Lake levels. Variations in lake levels and atmospheric precipitation; by
   L15
               Alfred J. Henry. 1899. 8 pp.
   L621 Lightning. Protection from lightning; by Alexander McAdie. 1894.
               (Circular of information.) 20 pp. 11 pl.
            Same. 2d edition. 1894. 21 pp. 6 pl.
    L622
    L623
            Same.
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3d edition. 1894. 21 pp. See, for 4th ed., A29.3:15. N27 Nebraska. Departures from normal temperature and rainfall with crop yields in Nebraska; by H. H. C. Dunwoody. 1896. 30 pp. N81 North Pacific coast weather map. Explanation of North Pacific coast weather map; by Willis L. Moore. 4 pp. 16° P11 Pacific slope. Weather forecasting and weather types on North Pacific

slope; by B. S. Pague and S. M. Blandford, Portland, Oreg. 1897. 29+[1] pp. P19

Pan-American Exposition weather maps; with special color-printed envelope. [1901.] (Broadside.) P21

Responses to programme of questions proposed for discussion at Paris International Meteorological Congress, Sept., 1896. 29 pp.

P911 Precipitation. Details of precipitation (rain and melted snow) at stations in Nebraska and South Dakota. Mar. 6, 1894.

### **Tables**

Classifica-

## A99. WEATHER BUREAU—Continued

tion no.	
129.2:	General publications—Continued
P91 <sup>2</sup>	Precipitation. Tables of daily precipitation at special river and rainfall
	stations of U.S. Weather Bureau, for 1893, 1894, 1895. 1900. [2] +256 pp.
P91 8	Precipitation. Table showing depth of precipitation corresponding to given weights. [1892.] card. 12°.
<b>P95</b>	Psychrometric tables for obtaining vapor pressure, relative humidity, and temperature of dew-point; prepared by C. F. Marvin. 1900. 84 pp.
R131	Rainfall chart. Lines of equal time of water travel at Cairo, Ill. [1892.]
R132	Rainfall laws, deduced from twenty years' observations; by Gustavus Hinrichs. Weather Bureau, 1893. 94 pp.
R521	River and flood service. Chart of river and flood service. 1897.
R522	River and flood service charts, showing area covered by water of Mississippi River in April, 1897.
Sa2	St. Marys Falls Canal. Relation of certain atmospheric changes to changes in water level in St. Marys Falls Canal. 1894. n. t. p. 2 pp. 4°
Si2 1	Signal Service. Statement of expenditures of Signal Service and Weather Bureau. 1893. 3 pp.
Si2 2	Same. 1895. 3 pp. 4°
Su7¹	Sunshine. Table of monthly amounts of possible sunshine for hours ending shortly after sunrise (and) sunset. 1894. 2 pp. card.
Su7 <sup>2</sup>	Sunshine table 1. Local time of sunrise and sunset for north latitudes, from 25° to 49°, inclusive. 2 pp. card.
<b>T</b> 11	Tables for dividing by 672, 720, 744, 56, 60, 62. Records Division, Weather Bureau. 1893. 15 pp.
<b>T34</b>	Thermometer scales. Comparison of thermometer scales. [1892.] card.
T431	Thunderstorm observations. [Circular of instructions.] [1892.] 2 pp.
T432	Same. [1893.] 2 pp.
W371	Weather Bureau. [Its history and work.] 1901. 15 pp. 24° [For distribution at Pan-American Exposition.]
W372	Weather charts. Explanation of weather charts. (Single sheet.)
W378	Weather code, Dec. 1, 1892. 1892. 93 pp. 4°
W374	Same, Dec. 1, 1896. 1896. 116 pp. 4°
W37 5	Same, Mar. 1, 1902. 1902. 93 pp. 4°
W376	Weather map. Explanation of weather map; by Willis L. Moore. 3 pp. 16°
W37 <sup>7</sup>	Weather map, Dec. 13-16, 1893. [Wall map, 52 × 56 in.] 1894.
129.3:	Builetins
1	No. 1. Notes on climate and meteorology of Death Valley, California; by Mark W. Harrington. 1892. 50 pp.
2	No. 2. Notes on new method for discussion of magnetic observations; by Frank H. Bigelow. 1892. 40 pp. 1 pl.
3	No. 3. Relations of soil to climate; by E. W. Hilgard. 1892. 59 pp.
4	No. 4. Some physical properties of soils in their relation to moisture and
-	crop distribution; by Milton Whitney. 1892. 90 pp.
5	No. 5. Observations and experiments on fluctuations in level and rate of movement of ground water on Wisconsin Agricultural Experiment Station farm, and at Whitewater, Wis.; by Franklin H. King.
6	1892. 75 pp. 6 pl. No. 6. Diurnal variation of barometric pressure; by Frank N. Cole.
7	1892. 32 pp. No. 7. Report of first annual meeting of American Association of State
8	No. 8. Climatology of cotton plant: by P. H. Mell. 1893. 68 pp. 1 pl.

No. 8. Climatology of cotton plant; by P. H. Mell. 1893. 68 pp. 1 pl. No. 9. Forecasting of thunderstorms during summer of 1893; by N. B. Conger. 1893. 54 pp. 6 pl. No. 10. Climate of Chicago; by Henry A. Hazen. 1893. 137 pp. 4 pl.

\* No copy found.

Classifica- tion no.	A29. WEATHER BUREAU—Continued
A29.3:	Bulletins—Continued
111	No. 11. Report of International Meteorological Congress, Chicago, Aug. 21-24, 1893, under auspices of Congress Auxiliary of World's Columbian Exposition; edited by Oliver L. Fassig. [pt. 1.] 1894. xv+206 pp. 10 pl.
· 11 <sup>2</sup> . 11 <sup>3</sup> . 12	Same, pt. 2. $1895$ . $[4]+xv-xvi+207-583$ pp. 15 pl. Same, pt. 3. $1896$ . $[2]+xvii-xxi+585-772$ pp. 18 pl. No. 12. Condensation of atmospheric moisture; by Carl Barus. 1895. $104$ pp.
131	No. 13. Temperatures injurious to food products in storage and during transportation, and methods of protection from same; by H. E. Williams. 1894. 20 pp.
13 2	Same, [2d edition]. 1896. 20 pp.
14	No. 14. Report of third annual meeting of American Association of State Weather Services, [Brooklyn]. 1894. 31 pp.
15	No. 15. Protection from lightning; by A. McAdie. [4th edition revised.]  1895. 26 pp. 8 pl.
16	See for 1st-3d eds., A29.2: L62.  No. 16. Determination of relative quantities of aqueous vapor in atmosphere, by means of absorption lines of the spectrum; by L. E. Jewell. 1896. 12 pp. 2 pl.
. 17	No. 17. Work of Weather Bureau in connection with rivers of United States. 1896. 106 pp. 4 pl.
18	No. 18. Report of fourth annual meeting of American Association of State Weather Services, Indianapolis, Ind., Oct. 16, 17, 1895. 1896. 55 pp.
19	
<b>20</b>	No. 20. Storms, storm tracks, and weather forecasting; by Frank H. Bigelow. 1897. 87 pp.
<b>21</b>	No. 21. Abstract of report on solar and terrestrial magnetism, in their relations to meteorology; by Frank H. Bigelow. 1898. 176 pp. 9 pl.
	No. 22. Climate of Cuba, also Note on weather of Manila; by W. F. R. Phillips. 1898. 23 pp.
23	No. 23. Frost: when to expect it and how to lessen the injury therefrom; by W. H. Hammon. [Revised ed.] 1899. 37 pp.  See for 1st ed. A29.2:F92.
24	No. 24. Proceedings of convention of Weather Bureau officials, Omaha, Nebr., Oct. 13, 14, 1898; edited by James Berry. 1899. 184 pp. 1 pl.
25	No. 25. Weather forecasting: some facts historical, practical, and theoretical; by Willis L. Moore. 1899. 16 pp.
26	No. 26. Lightning and electricity of air; [articles] by Alexander G. M'Adie and Alfred J. Henry. 2 pts. in 1. 1899. 74 pp. 4 pl.
<b>2</b> 7	No. 27. Probable state of sky along path of total eclipse of sun, May 28, 1900, observations of 1899; by Frank H. Bigelow. 1899. 23 pp. 4 charts.
28	No. 28. Climate of San Francisco, Cal.; by Alexander G. M'Adie and George H. Willson. 1899. 30 pp. 2 pl.
29 30	No. 29. Frost fighting; by Alexander G. McAdie. 1900. 15 pp. 6 pl. No. 30. Loss of life in U. S., by lightning; by Alfred J. Henry. 1901.
31	No. 31. Proceedings of 2d convention of Weather Bureau officials, held at Milwaukee, Wis., Aug. 27–29, 1901; edited by James Berry and W. F. R. Phillips. 1902. 246+[1] pp. 38 pl.
32	No. 32. Hurricanes, especially those of Porto Rico and St. Kitts; by William H. Alexander. 1902. 79 pp.

A29.3a: Bulletins (separates)

[Some of the articles in the Bulletins are issued separately.]

A29.4: Circulars None issued.

### Tables

Classification no.

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### A29. WEATHER BUREAU—Continued

## A29.5: Bulletins (lettered)

A A. Summary of international meteorological observations; by H. H. C. Dunwoody. 1893. 10 leaves. 53 pl. eleph fo

B<sup>1</sup> B. Currents of Great Lakes, as deduced from movements of bottle papers, during seasons of 1892 and 1893; by Mark W. Harrington. 1894. 6 leaves. 6 pl. eleph.f°

B<sup>2</sup> Same, revised edition. 1895. 14 pp. 6 pl. eleph.f°

C<sup>1</sup> C. Rainfall and snow of United States, compiled to end 1891, with annual, seasonal, monthly, and other charts; by Mark W. Harrington. 1894. 80 pp. 4°.

C<sup>2</sup> Same, Atlas. 1894. 25 pl. eleph.f°

D. Rainfall of United States, with annual, seasonal, and other charts; by Alfred J. Henry. 1897. 58 pp. 15 pl.

E E. Floods of Mississippi River; by Park Morrill. 1897. vi+79 pp. 58 pl. 4°

F. Vertical gradients of temperature, humidity, and wind direction.
Preliminary report on kite observations of 1898; by H. C. Frankenfield. 1899. 71 pp. 7 pl. 4°

G. Atmospheric radiation, a research conducted at Allegheny Observatory and at Providence, R. I.; submitted to Chief of Weather Bureau by Frank W. Verv. 1900. 134 pp. 4°

H H. West Indian hurricanes; by E. B. Garriott. 1900. iii+69 pp., 7 charts. 4°

I. Eclipse, meteorology, and allied problems; by Frank H. Bigelow. 1902.

J. Wind velocity and fluctuations of water level on Lake Erie; by Alfred J. Henry. 1902. 22 pp. 25 pl.

## A29.6: Monthly weather review

[Vols. 1-18 and nos. 1-6 of vol. 19 issued by Signal Service, War Department, W42.20: The chart numbers are given as they appear on the publications, regardless of the fact that they are printed on both sides of a page.]

19 V. 19. [1891] n. t. p.

No. 7. July. pp. 155-179. 4 ch. 1 pl.

No. 8. Aug. pp. 181-207. 4 ch. 1 pl.

No. 9. Sept. pp. 209-232+ix. 4 ch. 1 pl.

No. 10. Oct. pp. 233–258. 5 ch. 1 pl.

No. 11. Nov. pp. 259-287. 7 ch.

No. 12. Dec. pp. 289-330+x. 13 ch.

20 V. 20. [1892] n. t. p.

No. 1. Jan. pp. 1-31. 7 ch.

No. 2. Feb. pp. 33–59. 7 ch.

No. 3. Mar. pp. 61-87. 7 ch.

No. 4. Apr. pp. 89–116. 5 ch.

No. 5. May. pp. 117-147. 5 ch.

No. 6. June. pp. 149–178. 4 ch

No. 7. July. pp. 179–206. 4 ch.

No. 8. Aug. pp. 207–234. 4 ch

No. 9. Sept. pp. 235–260. 4 ch.

No. 10. Oct. pp. 261–288. 5 ch. No. 11. Nov. pp. 289–318. 6 ch.

No. 12. Dec. pp. 319-346+10. 7 ch.

21 V. 21. 1893. Washington, D. C., Weather Bureau. 1894.

No. 1. Jan. pp. 1-30. 9 ch.

No. 2. Feb. pp. 31-60. 8 ch.

No. 3. Mar. pp. 61-90. 6 ch.

No. 4. Apr. pp. 91-122. 6 ch.

No. 5. May. pp. 123-152. 6 ch.

No. 6. June. pp. 153-178. 5 ch.

No. 7. July. pp. 179–204. 5 ch. No. 8. Aug. pp. 205–240. 5 ch.

No. 9. Sept. pp. 241–267. 6 ch.

No. 10. Oct. 269-307. 6 ch.

No. 11. Nov. 309-342. 7 ch.

### A29. WEATHER BUREAU—Continued

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A29.6:
       Monthly weather review—Continued
       V. 21. 1893. Washington, D. C., Weather Bureau. 1894—Continued
          No. 12. Dec. 343–376. 7 ch.
          No. 13. Annual Summary. pp. 377-390+vi. 7 ch.
       V. 22. 1894. Washington: Weather Bureau. 1895.
          No. 1. Jan. pp. 1-45. 6 ch.
          No. 2. Feb. pp. 47-97. 6 ch.
          No. 3. Mar. pp. 99-147, 8 ch.
          No. 4. Apr. pp. 149-191. 5 ch.
          No. 5. May. pp. 193-234. 4 ch.
          No. 6. June. pp. 235–272. 4 ch.
          No. 7. July. pp. 273-310. 4 ch.
          No. 8. Aug. pp. 311-350.
                                   4 ch.
          No. 9. Sept. pp. 351–392.
                                   6 ch.
          No. 10. Oct. pp. 393-439. 6 ch.
          No. 11. Nov. pp. 441-485. 7 ch.
          No. 12. Dec. pp. 487-533. 7 ch.
          No. 13. Annual Summary. pp. 535-547+vii. 3 ch.
       V. 23. 1895. Washington: Weather Bureau. 1896.
   23 |
          No. 1. Jan. pp. 1-45. 32 ch.
          No. 2. Feb. pp. 47-80. 7 ch.
          No. 3. Mar. pp. 81-116. 9 ch.
          No. 4. Apr. pp. 117–155.
          No. 5. May. pp. 157-197. 8 ch.
          No. 6. June. pp. 199-239. 5 ch.
          No. 7. July. pp. 241–282. 6 ch.
          No. 8. Aug. pp. 283-324. 5 ch.
          No. 9. Sept. pp. 325-364.
                                   6 ch.
          No. 10. Oct. pp. 365-407. 6 ch.
          No. 11. Nov. pp. 409-448. 8 ch.
                       pp. 449–487. 1 pl. 7 ch.
          No. 12. Dec.
          No. 13. Annual Summary. pp. 489-501+vii. 5 ch.
   24 | V. 24. 1896. Washington: Weather Bureau. 1897.
          No. 1. Jan. pp. 1-38. 7 ch.
          No. 2. Feb. pp. 39-68. 7 ch.
          No. 3. Mar. pp. 69-103. 9 ch.
          No. 4. Apr. pp. 105-144. 9 ch.
          No. 5. May. pp. 145-190. 12 ch.
          No. 6. June. pp. 191-228. 6 ch.
          No. 7. July. pp. 229-280. 8 ch.
          No. 8. Aug. pp. 281-314. 4 ch.
          No. 9. Sept. pp. 315-358. . 6 ch.
          No. 10. Oct. pp. 359-395. 5 ch.
          No. 11. Nov. pp. 397-442. 9 ch.
          No. 12. Dec. pp. 443-485. 6 ch.
          No. 13. Annual Summary. pp. 487-496+vi. 5 ch.
       V. 25. 1897. Washington: Weather Bureau. 1898.
          No. 1. Jan. pp. 1–42. 7 ch.
          No. 2. Feb. pp. 43-84. 7 ch.
          No. 3. Mar.
                       pp. 85–121.
          No. 4. Apr. pp. 123–188.
                                   6 ch.
          No. 5. May. pp. 189-234. 5 ch.
          No. 6. June. pp. 235–283.
                                     5 ch.
                       pp. 285–338.
          No. 7. July.
                                    5 ch.
          No. 8. Aug. pp. 339-379.
                                   6 ch.
          No. 9. Sept. pp. 381-424.
                                    8 ch.
          No. 10. Oct. pp. 425-470. 6 ch.
          No. 11. Nov. pp. 471-516+[1].
          No. 12. Dec. pp. 519-568. 7 ch.
No. 13. Annual Summary. pp. 569-579+7. 5 ch.
       V. 28. 1898. Washington: Weather Bureau. 1899.
          No. 1. Jan. pp. 1-43. 13 ch.
          No. 2. Feb. pp. 45-89. 10 ch.
          No. 3. Mar. pp. 91-137. 13 ch.
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### A29. WEATHER BUREAU—Continued

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A29.6:
         Monthly weather review—Continued
     26
          V. 26. 1898. Washington: Weather Bureau. 1899—Continued
            No. 4. Apr. pp. 139–193. 8 ch.
            No. 5. May. pp. 195-240. 12 ch.
            No. 6. June. pp. 241-290. 7 ch.
            No. 7. July. pp. 291-341. 12 ch.
            No. 8. Aug. pp. 343-390.
                                       7 ch.
            No. 9. Sept. pp. 391-437. 17 ch.
            No. 10. Oct. pp. 439-492. 11 ch.
            No. 11. Nov. pp. 493-525. 12 ch.
            No. 12. Dec. pp. 527-591. 12 ch.
            No. 13. Annual Summary. pp. 593-605+x. 5 ch.
     27
         V. 27. 1899. Washington: Weather Bureau. 1900.
            No. 1. Jan. pp. 1-40. 9 ch.
            No. 2. Feb. pp. 41-87. 6 pl. 13 ch.
            No. 3. Mar. pp. 89–138. 13 ch.
            No. 4. Apr. pp. 139–186. 11 ch.
            No. 5. May. pp. 187–241. 6 pl. 8 ch. No. 6. June. pp. 243–285. 9 ch.
            No. 7. July. pp. 287-341. 3 pl. 8 ch.
            No. 8. Aug. pp. 343–393. 2 pl. 12 ch. No. 9. Sept. pp. 395–448. 11 ch.
            No. 10. Oct. pp. 449-502. 1 pl. 9 ch.
            No. 11. Nov. pp. 503-533. 9 ch.
            No. 12. Dec. pp. 535–575. 10 ch.
            No. 13. Annual Summary. pp. 577-597+ix. 5 ch.
         V. 28. 1900. Washington: Weather Bureau. 1901.
     28
            No. 1. Jan. pp. 1-49. 10 ch.
            No. 2. Feb. pp. 51-93. 1 pl. 11 ch.
            No. 3. Mar. pp. 95–139. 10 ch.
            No. 4. Apr. pp. 141–191. 9 ch.
            No. 5. May. pp. 193-238. 8 ch.
            No. 6. June. pp. 239–278. 8 ch.
            No. 7. July. pp. 279-320. 3 pl. 8 ch.
            No. 8. Aug. pp. 321–370. 8 ch.
            No. 9. Sept. pp. 371–424. 13 ch.
            No. 10. Oct. pp. 425-476. 10 ch.
            No. 11. Nov. pp. 477–525. 2 pl. 10 ch.
             No. 12. Dec. pp. 527–583. 1 pl. 10 ch.
            No. 13. Annual Summary. pp. 585-599+x. 7 ch.
          V. 29. 1901. Washington: Weather Bureau. 1902.
     29
            No. 1. Jan. pp. 1-47. 10 ch. 2 pl.
            No. 2. Feb. pp. 49–97. 13 ch. 5 pl.
            No. 3. Mar. pp. 99-143. 9 ch. 1 pl.
            No. 4. Apr. pp. 145-199. 9 ch.
No. 5. May. pp. 201-241. 10 ch. 4 pl.
            No. 6. June. pp. 243–289. 4 pl.
            No. 7. July. pp. 291–339. 1 l. 9 ch. 1 pl.
            No. 8. Aug. pp. 341-397. 8 ch. 3 pl.
            No. 9. Sept. pp. 399-445. 10 ch.
            No. 10. Oct. pp. 447–487. 9 ch. 1 pl.
            No. 11. Nov. pp. 489-533. 13 ch.
            No. 12. Dec. pp. 535-589. 10 ch.
            No. 13. Annual Summary, 1901. pp. 591-613+ix. 7 ch.
     30
         V. 30. 1902.
                         pp. 1–59 10 ch.
            No. 1. Jan.
            No. 2. Feb. pp. 61-108. 10 ch.
            No. 3. Mar. pp. 109–156. 9 ch.
            No. 4. Apr. pp. 157–243.
                                       12 ch.
            No. 5. May. pp. 245–292. 8 ch.
            No. 6. June. pp. 293–340.
                                        8 ch.
            No. 7. July. pp. 341–392.
            No. 8. Aug. pp. 393–432.
                                        8 ch.
            No. 9. Sept. pp. 433-472.
                                       - 8 ch.
```

No. 10. Oct. pp. 473-510. 8 ch.

### WEATHER BUREAU—Continued

#### **A29.6**a: **Monthly weather review** (separates)

[Some of the more important articles in the Review were issued separately in , pamphlet form.]

#### A29.7: Climate and crop bulletin (broadside)

[The Climate and Crop Bulletin is issued weekly from April to September during the season of planting, cultivating, and harvesting of crops, and monthly from October to March. The title "Climate and Crop Bulletin" was adopted February, 1896, the bulletin having been previously issued under the title "Weather-Crop Bulletin." This publication deals with the general weather and crop conditions of the United States, while bulletins showing more detailed information for the several States are issued from the central stations of 43 climate and crop centers. A Climate and Crop Bulletin of the cotton region, dealing more particularly with the weather conditions affecting the cotton crop, is published weekly at New Orleans from about May 1 to the latter part of October. Cotton Region Bulletins containing temperature and rainfall observations reported by telegraph from about 150 stations in the Southern States are issued daily from 12 district centers in the cotton belt from April 16 to October 31. Corn and Wheat Region Bulletins, identical in character with the preceding, are issued daily from 9 district centers in the corn and wheat belt from April 1 to September 30. Fruit and Wheat Bulletins, also identical, are issued from San Francisco during June, July, Wheat Bulletins, also identical, are issued from San Francisco during June, July, and August.]

## Weather-crop bulletin.

[Nos. 1-21 issued by Signal Office, U. S. A.]

891 1891. Nos. 22–39. 1892. 892 Nos. 1–33. Nos. 1-32. 893 1893. 894 1894. Nos. 1-32.

895 1895. Nos. 1–32.

896<sup>1</sup> 1896. No. 1.

Climate and crop bulletin.

Nos. 2–32. 896 2 1896. 1897. Nos. 1-32. 897 898 1898. Nos. 1-31. 899 1899. Nos. 1-31. 900 Nos. 1-32. **1900.** 

901 1901. Nos. 1-32.

902 1902. Nos. 1-30.

#### **A29.8:** Climate and Health

[Contains reports of "systematic investigation to ascertain the relationships and applicability of climatic and weather conditions to sanitary science." Issued monthly, July, 1895, to March, 1896, and then discontinued.]

1895. V. 1, nos. 1-6. July-Dec. 1895.

No. 1. July. pp. 1-25. 20 ch. No. 2. Aug. pp. 27-58. 25 ch. No. 3. Sept. pp. 59-82. 20 ch.

No. 4. Oct. pp. 83-107. 20 ch.

No. 5. Nov. pp. 109-145. 24 ch.

No. 6. Dec. pp. 147-174. 12 ch. 1896. v. 2, nos. 1-3. Jan.-Mar. 1896.

No. 1. Jan. 1-35. 14 ch. No. 2. Feb. 37-64. 12 ch.

No. 3. Mar. 65-92. 12 ch. 1 diagram.

[Discontinued Mar. 28, 1896.]

# A29.9: Cold wave builetin (broadside)

No. 1. Cold wave of Jan. 2-5, 1896. Jan. 8, 1896. (Chart.)

# A39.10: Daily river stages

51

Pts. 1-3. Issued by Signal Office, War Department. 41

Pt. 4. Principal rivers of U.S., 1890-92; by Thomas Russell. lxvii. 43 Same, with gauge readings. lxvii+439 pp. 10 charts. 4°

Pt. 5. Principal rivers of U.S., 1893-95; by Park Morrill. lxii pp. Same, with gauge readings. lxii+555 pp. 4°

53 Pt. 6. Principal rivers of U.S., 1896-99; by H.C. Frankenfield. 1900. 446 pp. 4°

### **Tables**

Classification no.

## A29. WEATHER BUREAU—Continued

## A29.11: Instrument Room (or Division) circulars

A. Instructions for obtaining and transcribing records from recording instruments. Washington, Weather Bureau. 1892. 12 pp.

 $A^2$  | Same, rev. ed.; by C. F. Marvin. 1894. 40 pp.

A<sup>3</sup> | A. Instructions for obtaining and tabulating records from recording instruments; by C. F. Marvin. 1898. 31 pp.

B<sup>1</sup> | B. Directions for use of maximum and minimum thermometers. Wash-

B. Directions for use of maximum and minimum thermometers. Washington, Weather Bureau. 1892. 11 pp.

B<sup>2</sup> B. Instructions for use of maximum and minimum thermometers, rev. ed. 1895. 16 pp.

C. Instructions for use of rain-gauge. Washington, Weather Bureau, 1892. 8 pp.

 $C^2$  Same, rev. ed. 1895. 11 pp.

D¹ D. Anemometry, a circular of general information respecting theory and operation of typical instruments for indicating, measuring, and automatically recording wind movement and direction, etc.; prepared by C. F. Marvin. Washington, Weather Bureau. 1893. 40 pp.

D² Same. 1900. 67 pp. 1 pl.

E. Instructions for using Marvin's weighing rain and snow gauge [by C. F. Marvin]. 1893. 16 pp.

E<sup>2</sup> | E. Measurement of precipitation; by C. F. Marvin. 1899. 28 pp.

F<sup>1</sup> F. Barometers and measurement of atmospheric pressure; by C. F. Marvin. 1894. 74 pp.

 $\mathbf{F}^2$  | Same, 2d edition. 1901. 94 pp.

G. Instructions for use of combined maximum and minimum soil thermometers; by C. F. Marvin and Milton Whitney. 1894. 8 pp.

G. Instructions for care and management of sunshine recorders; by C. F. Marvin. 1896. 18 pp.

G<sup>3</sup> Same, 2d ed. 1901. 19 pp.

- H. Instructions for use of maximum and minimum radiation thermometers; by C. F. Marvin and Milton Whitney. 1894. 10 pp.
  [No circulars I or J will be issued.]
- K. Instructions for aerial observers; by C. F. Marvin. 1898. 33 pp. 3 pl.

### **A29.12: Instructions** (unnumbered)

- An3 Aneroid barograph. Instructions for use of aneroid barograph on Great Lakes. Washington, Weather Bureau. 1897. 7 pp.
  - C81 Corn. Instructions governing corn, wheat, cotton, sugar, and rice region service; by James Berry. Washington, Weather Bureau. 1897. 9 pp. 1 table.
- C821 Cotton region. Instructions to observers and code for enciphering reports at cotton region and sugar and rice stations of Weather Bureau. Washington, D. C., Weather Bureau. 1892. 27 pp.

C82<sup>2</sup> Same. 1895. 39 pp.

- D63<sup>1</sup> Displaymen. Instructions to special displaymen. Washington, D. C., Weather Bureau. 1892. 13 pp. 12°.
- D63<sup>2</sup> Displaymen. Instructions to wind-signal displaymen. Washington, Weather Bureau. 1896. 11 pp. 1 pl.

Ob7 Observers. Instructions for observers. 1895. 82 pp.

- R13 Rainfall observers. Instructions to special rainfall observers. Washington, D. C., Weather Bureau. 1893. 22 pp.
- R52<sup>1</sup> River observers. Instructions for special river observers; by Thomas Russell. Washington, D. C., Weather Bureau. 1892. 54 pp. R52<sup>2</sup> River observers. Instructions for special river observers. 1894. 49 pp.
- R52<sup>3</sup> River observers. Instructions to special river observers. 1902. 48 pp.

Sel<sup>1</sup> Seacoast telegraph lines. Instructions to operators on United States seacoast telegraph lines; by E. L. Bugbee. 1892. 24 pp.

Sel<sup>2</sup> Seacoast telegraph lines. Instructions to operators on seacoast telegraph lines; by J. H. Robinson. Washington, Weather Bureau. 1897. 26 pp. 1 pl.

Su7 | Sunshine recorder. Instructions for using glass electrical sunshine recorder, pattern, 1893. n. t. p. [1893.] 4 pp.

```
Classifica-
                     A29. WEATHER BUREAU—Continued
 tion no.
A29.12: Instructions (unnumbered)—Continued
  V881
         Voluntary observers. Instructions for voluntary observers; by T. Russell.
                1892. 100 pp.
         Voluntary observers. Instructions for voluntary observers. Washington,
  V882
                Weather Bureau. 1897. 22 pp. 1 pl.
  V888
            Same, Washington, Weather Bureau. 1899. 23 pp. 1 pl.
            Same, 2d edition, comprising circulars B and C, instrument room.
  V884
                1901. 28 pp. 1 pl.
         Meteorological chart of the Great Lakes (20 x 25 in.)
A29.13:
         1897. Oct.-Dec.
   897
                Apr.-Dec. and Summary for year.
   898
         1898.
         1899. May-Dec.; Summary for 1899; V. 2, no. 9; by A. J. Henry and
   899
                N. B. Conger. 1899. 28 pp. 12 charts. 4°
         1900. May-Dec. Nos. 1-8; Summary for season; by A. J. Henry and
   900
                N. B. Conger. V. 3, no. 9 [erroneously printed 10]. 23 pp. 14 ch. 4°
         1901. No. 1. [No monthly date, received June 21, 1901.] 28 pp. 4 ch. 4°
   901 1
   901 2
            No. 2. Summary for season [no monthly date, received Jan. 30, 1902].
                32 pp. 8 ch. 4°
   902
         1902. No. 1. 26 pp. 1 pl. 4°
         River and flood service
A29.14:
         Monthly report (reprinted from Monthly Weather Review).
   897
         1897. Sept., 11 pp. 1 pl.
            Oct., 11 pp. 1 pl.
            Nov., 13 pp. 1 pl.
            Dec., 13 pp. 1 pl.
         1898. Jan., 18 pp. 1 pl.
  · 898
            Feb., 14 pp. 1 pl.
            Mar., 19 pp. 1 pl.
            Apr., 30 pp. 1 pl.
            May, 14 pp. 1 pl.
            June, 14 pp. 1 pl.
            July, 13 pp. 1 pl.
             Aug., 15 pp. 1 pl.
            Sept., 15 pp. 1 pl.
            Oct., 16 pp. 1 pl.
            [Discontinued.]
A29.15: Sanitary climatology circulars
     1
         No. 1. [Asking cooperation of physicians, boards of health, etc.] Jan. 2,
                1895. (Circ.)
         No. 2. [To officials of United States weather bureaus on methods of
                keeping statistics, etc.] Jan. 2, 1895. (Circ.)
     3
         No. 3. [To publishers of periodicals, newspapers, etc.] Jan. 2, 1895. (Circ.)
         No. 4. Information relative to investigation of influence of climate on
     4
                health. [1895.] 7 pp.
            [Series discontinued.]
A29.16: Snow and ice bulletin
            [Issue begun Feb., 1892. Issued in weekly numbers from early in December to latter part of March. First title, "Depth of Snow on Ground," used to Mar. 30, 1896; changed to "Snow and Ice Chart," and continued under that name until Feb. 21,
                1899, when the present title was substituted. Shows area covered by snow, its
                depth, and the thickness of ice in rivers and harbors.]
A29.17: Storm bulletin
          LAKE STORM BULLETIN.
    893
          1893, nos. 1–5.
    894 1
          1894. no. 1.
          STORM BULLETIN.
    894 2
          1894, nos. 2, 3.
    895
          1895, nos. 1-3.
    896
          1896, nos. 1–5.
```

897

1897 (none issued).

```
Tables
                   A29. WEATHER BUREAU—Continued
Classifics-
 tion no.
A29.17: Storm bulletin—Continued
         Storm bulletin—Continued
   898
         1898, no. 1.
   899
         1899, no. 1.
   900
         1900, no. 1.
```

#### Weather map (broadside) **A29.18**:

[This publication, issued at the Weather Bureau in Washington, is the only Government publication issued every day in the year, Sundays and holidays included. At 94 stations of the Weather Bureau smaller weather maps are issued daily, except Sundays and holidays. At 18 of the less important stations bulletins, containing practically the same meteorological data that appear on the weather maps, are

To an extent permitted by the editions, the maps and bulletins are furnished free of charge to business and commercial exchanges, corporations, firms, individuals, and educational institutions that will display them for the benefit of the

public or use them for educational purposes.]
[Issued by Signal Office, tri-daily from Jan. 1, 1871, 7:85 a.m., to June 30, 1888; semi-

daily, July 1, 1888, to June 80, 1891.]

```
Semi-daily.
       1891, July 1-Dec. 31.
891
892
       1892, Jan. 1-Dec. 31.
893
       1893, Jan. 1-Dec. 31.
894
       1894, Jan. 1-Dec. 31.
895 <sup>1</sup>
       1895, Jan. 1-Sept. 30.
       Daily.
895°
       1895, Oct. 1-Dec. 31.
896
       1896, Jan. 1-Dec. 31.
897
       1897, Jan. 1-Dec. 31.
       1898, Jan. 1-Dec. 31.
898
899
       1899, Jan. 1-Dec. 31.
900
       1900, Jan. 1-Dec. 31.
       1901, Jan. 1-Dec. 31.
901
902
       1902, Jan. 1-Dec. 31.
       Special river bulletins (circulars)
```

# **A29.19**:

897 1897. Mar. 15-19, 28-31; Apr. 1-29.

# INDEX TO THE TABLES

When the consulter finds in this index an entry which interests him, let him note the reference figures or "classification number" opposite such entry, then turn to the same figures in the "Tables" which form the first part of this work. These will easily be found, because they are arranged in numerical order from 1 to the end. Having turned in the Tables to the figures of the index entry, there will be found a complete statement of the number, series, bureau, etc., by which the publication indexed is known, and also its exact title and history.

For a full explanation of the "classification numbers" used as reference figures in this index, see pp. 8-15, without a careful perusal of which the best results can not be obtained in using this index.

•		•		
	•			
	•	•		
			•	
		•		

Classification no.

	Classincation no.
Abattoirs. See Cattle markets and abattoirs. Abbe, Cleveland:	
Anchor ice, note on. 1897. p. 212.	A29.6:25
Aqueous vapor, total quantity of, in atmosphere. 1894. p. 539	
Atmospheric refractions at surface of water. 1896. p. 371	A29.6:24
Marine nephoscope and its usefulness to navigator. 1894. p. 161.	A29.3:11 <sup>1</sup>
Meteorological notes, monthly, Aug., 1893, to Oct., 1902. [The	1120.0.11
"Notes" are entered under individual titles in index]	A29.6:
Metereological work of U. S. Signal Service, 1870 to 1891. 1895.	A20.0.
p. 232	A29.3:11 <sup>2</sup>
Munich, International Conference of Meteorologists, Aug., 1891.	A20.0.11
p. 626	A1.1:891
same, p. 626	A29.1:891 <sup>2</sup>
Precipitation, true amount of, determination of, and its bearing	A20.1.001
on theories of forest influence. 1893. p. 175	A13.3:7
Rainfall, charting of, note on. 1902. p. 214	
Weather Bureau signals. 1892. p. 35	A29.3:7
Weather determining instruments, corrections, methods of reduc-	A25.0.1
tion, resulting accuracy. p. 37	A29.1:891 <sup>3</sup>
Weather forecasts, long-range, physical basis of. 1901. p. 551.	A29.6:29
See also, as joint author, De Riemer, Alicia — Richards, George	120.0.20
W.; as translator, Bergholz, Paul.	
Abbot, Charles G. Sun-spot cycle, relation of, to meteorology.	•
1902. p. 178	A29.6:30
Abbot, Henry Larcom:	A20.0.00
Chagres River—	
	A 20 R 27
discharges of, ratio of, to rainfall. 1900. p. 541upper, rainfall and drainage in. 1900. p. 243	A 29 R 28
Climatology of Isthmus of Panama, including temperature, winds,	2120.0.20
barometric pressure, and precipitation, 1899. pp. 198, 302	A29.6:27
Heat, our killing. 1901. p. 371	A29.6:29
Meteorology of Panama—	
contributions to. 1899. p. 7.	A 29.6:28
report of. 1899. p. 463	A29.6:27
Abbott, James W. Roads, mountain, p. 183	A1.10:900
Abbott, James W. Roads, mountain. p. 183	A1.10:901
Abbott, L. S.:	
Cattle, feeding of, aids to. p. 211	A1.1:866
Potato culture in Lake County, Ohio. p. 295	A1.1:865
Abbreviations used in Experiment Station Record	A10.2:Ab2
Abel, (Mrs.) Mary Hinman:	•
Beans, peas, and other legumes as food. 1900	
Sugar as food. 1899	A1.9:93
Abercrombie, John W. Common schools as affected by roads.	
1902. p. 39	A22.3:23
Abercrombie, W. R. Copper River country, Alaska, notes on. p.	1 - 0 - 10 - 00 - 1
307	A10.1 <sup>2</sup> :901
Abilene, Texas. Forage crops and range improvement at, progress	A 0, 4,00
of experiments (Bentley). 1899	A3.4:23
Abortion. See Cows — Mares.	
Abutilon avicennæ, cultivation of, in New Jersey (Waterhouse).	A1.1:879
p. 606 Acapulco, Mexico:	A1.1:079
Grasses collected by Dr. E. Palmer in vicinity of (Scribner).	
1897. p. 7	
Roseanthus, a new genus of cucurbitacese from (Cogniaux).	AUIUIT
1896. p. 577	
Accessions to Agriculture Department library	A17.3:
Accounts and Disbursements Division, Agriculture Department	A2.
Acetylene gas, substitution of, for oil in storm-warning lanterns	
(Richardson), 1902, p. 154	A29.3:31
Acid and alkali solutions, standardization of:	
1892 (Parsons). p. 80.	A7.3:35
1892 (Parsons). p. 80. 1893 (Jenter). p. 43.	A7.3:38
1894 (Miller). p. 145	A7.3:43
Acid media. See Media.	•
Acid soils. See Soils.	

index	Classification no.
Acorn insects, primary and secondary (Murtfeldt). 1894. p. 318	
Actinomycosis. See Lumpy-jaw.	210.7.0
Acworth, A. E. Old records of cold weather in March in Maryland,	
1823–94. p. 126	A29:6:22
Adams, F. G.:	4 44 7 0
Agriculture in common schools. 1885. p. 174. Sorghum culture in Kansas, history of. 1884. p. 71	A1:7:9
Adams (Mrs.) L. B. Home life, training, and ambitions of farmers'	A7:3:3
1 ' ' 00#	A1.1:863
Addams, Jane. See Atwater, Wilbur Olin, and Bryant, Arthur Peyton.	
Adirondacks, practical forestry in (Graves). 1899	A13.3:26
Adulterated butter. See Renovated butter.	
Aegeriidæ. See Moths.	
Aerial observations, 1899 (Wurtz). p. 114	A29.3:24
same (Noyes). p. 117same (Piercy). p. 119	A 29. 3:24 A 90 2.94
Aërial observers, instructions for (Marvin). 1898	A29.3.24 A29.11·K
Aërial voyages by balloons and kites, notes on (Rotch). 1900. p. 553.	A29.6:28
See also Balloons.	
Aërolite, fall of, in Arizona (Abbe). 1897. p. 56	A29.6:25
Aëronautical Conference, International, at Strassburg, Germany, 1898,	
report on (Rotch). p. 158.	A29.6:26
Aëronautical Congress, International, at Berlin, 1902 (Rotch). p. 356.	A29.6:30
Aëronautics, international committee on, personnel of (Abbe). 1896.	A 90. A .04
p. 462. Aëro-physical observatory, equipment of (McAdie). 1896. p. 453.	A29.6:24 A29.6:24
Africa, South:	A20.U.24
Animal products in (Stowe). p. 512	A4.1:898
Frost work in, notes on (Abbe). 1900. p. 14.	A29.6:28
Meat in (Stowe). p. 512	A4.1:900
Meat in (Stowe). p. 512. Meteorology, notes on (Abbe). 1900. p. 13.	A29.6:28
See also Cape Colony.	
Agamodistomum ophthalmobium. See Fluke-worms.	400 E.E
Agarics, North American, report on (Macadam). 1889. p. 58, 135  See also Mushrooms.	A28.5:5
Agaricus campestris and other basidiomycetous fungi, spores of, pre-	
liminary study of germination of (Ferguson). 1902	A 19.3:16
Agaves:	
Fiber-producing (Dodge). 1893. p. 34	A11.5:5
Geographic and vertical distribution of, in deserts and desert	
ranges of southern California, southern Nevada, northwestern	
Arizona, and southwestern Utah (Merriam). 1893. p. 345.	A5.5:7
Age, determination of, by teeth in domestic animals. 1898. p. 667. Agonoderus pallepes injurious to corn, note on. 1886. p. 44	A1.10:898 A9.3:12
Agricultural Academy. See Poppelsdorf, Prussia.	A6.5:12
Agricultural and climatic features of arid regions of Pacific slope, etc.	
(Hilgard and others). 1882	A1.8:20
Agricultural and horticultural periodicals, list of:	
1867. p. 404	A1.1:867
1868. p. 608	
1870. p. 544	A1.1:870
Agricultural and horticultural societies and clubs, complete list. p. 364	A1.1:867
Same. 1869	
Agricultural and mechanical college of Alabama. See Atwater, Wil-	111121200
bur Olin, and Woods, Chas. Dayton.	
Agricultural and mechanical colleges:	
Relation of—	4400
to Department of Interior, 1893 (Holcombe). p. 114	A10.3:16
to State (Drake). 1901. p. 183	A10.3:99
(Dye). 1902. p. 44	A10.3:110
Agricultural associations in Belgium (De Vuyst). 1898. p. 3	A10.6:9
Agricultural books, recent, review of:	
1868. p. 555	A1.1:868
1869. p. 487	A1.1:869
1871. p. 410	A1.1:871

Classification no. Agricultural botany. See Botany. Agricultural chemistry: Estimation and importance to, of ash constituents of plants (Tol-Facts in. 1867. p. 92

Progress in, 1899. p. 742.

See also Chemical analysis — Chemistry — Chemists, Official Agricultural, Association of — Fertilizers — Manures — Soils. Agricultural Chemists, Official, Association of. See Chemists, Official Agricultural, Association of. Agricultural climatology station at Juvisy, physical and meteorological researches at, principally on solar rays (Flammarion). 1899. pp. 103, 203 Agricultural college, what [it] ought to be, paper on (Maurice). 1885. A10.6:10 -----A1.7:9Agricultural colleges (land-grant colleges): Agricultural departments of, requirements for admission to, and cost of attendance. 1900. p. 674..... A1.10:900 American, some types of (True). 1898. p. 63..... A1.10:898 Attitude of, toward university extension (Voorhees). 1895. p. 49. A10.3:24 Collective exhibit of, at World's Columbian Exposition, 1893 (Alvord). p. 103. Education at, general drift of (Patterson). 1901. p. 99. A10.3:16A10.3:99Forest experiment stations in connection with (Egleston). 1885. A1.7:9A1.1:865 Limits of education under the law at (Knapp). 1885. p. 163... A1.7:9 A1.8:5List of, 1872 ..... same. 1876 ..... A1.8:12Manual labor in (Emery). 1891. p. 106

Military instruction in, report of committee on (Atherton).

1901. p. 85

A10.3:7 Preparatory teaching in (Hilgard). 1898. p. 61
Preparatory work in (Hays). 1898. p. 65 A10.3:49 A10.3:49 Statistics of. 1899. p. 1001..... A10.6:10 Vegetable physiology in (Stone). 1896. p. 99..... A10.3:41 What can they do to nourish a hearty sentiment for rural life (Davenport). 1896. p. 82. What mechanical work shall we give to students of our? A10.3:41same (Goodell). p. 71..... A10.3:41work of, some general considerations regarding (Ellis). 1899. p. 15..... A10.3:65See also Agricultural education — Cirencester, England — Downton, England — Illinois, University of — Kansas State Agricultural College — Poppelsdorf, Prussia — Purdue University School of Agriculture. Agricultural colleges and experiment stations: Address list of

Relation to farmers' institutes (Hutchinson). 1902. p. 33..... A10.4:26 A10.3:110 Road making at, letter relative to cooperation of road-inquiry office in aid of (Stone) A22.2:Ag8 Statistics of 1894 A10.4:27

	Classification no
Agricultural colleges and experiment stations—Continued	
Statistics of—	440 4 05
1896 1897 (Sommers)	
1898 (Sommers)	
1899 (Davis)	
1899, report on. p. 1002	A10.6:10
1900 (Spethmann)	
1901 (Spethmann)	A10.3:114
Agricultural Colleges and Experiment Stations, American, Association of:	
[1st annual] convention, July 8, 9, 1885, proceedings of	A1.7:9
2d annual convention, Jan., 1889, circular urging attendance at	
same, proceedings of; edited by A. W. Harris and H. E. Al-	
vord. 1889	A10.5:1
3d annual convention, Nov., 1889, proceedings of; edited by A.	11050
W. Harris and H. E. Alvord	A10.5:2
	A10.5:3
5th annual convention, 1891, proceedings of; edited by A. W.	1110.0.0
Harris and H. E. Alvord	A10.3:7
Harris and H. E. Alvord	A10.4:21
6th annual convention, 1892, proceedings of; edited by A. W.	•
Harris and H. E. Alvord	A10.3:16
same, report on. p. 397	A10.6:4
True and H. E. Alvord	A 10 3-20
same, report on. p. 272.	A10.6:5
8th annual convention, 1894, proceedings of; edited by A. C.	
True and H. H. Goodell	A10.3:24
same, report on. p. 257	A10.6:6
9th annual convention, 1895, proceedings of; edited by A. C.	A 1 0 9 20
True and H. H. Goodellsame, report on. p. 169	A10.3:30 A10.6:7
10th annual convention, 1896, list of delegates and visitors to.	A10.0.1
1896	$A1.2:Ag8^{1}$
same, proceedings of; edited by A. C. True and H. H. Goodell.	A10.3:41
same, report on (Beal). p. 541	A10.6:8
11th annual convention, 1897, proceedings of; edited by A. C.	A 10 9.40
True and H. H. Goodell same, report on (Beal). p. 303	A10.3:49 A10.6:9
12th annual convention, 1898, proceedings of; edited by A. C.	2110.0.0
True, W. H. Beal, and H. H. Goodell	A10.3:65
same, report on (Beal). p. 704	A10.6:10
13th annual convention, 1899, proceedings of; edited by A. C.	
True, W. H. Beal, and H. H. Goodell	A10.3:76
same, report on (Allen). p. 405	A10.6:11
True, W. H. Beal, and H. H. Goodell	A10.3:99
same, report on (Allen). p. 404	A10.6:12
15th annual convention, 1901, proceedings of; edited by A. C.	
True, W. H. Beal, and H. H. Goodell	A10.3:115
same, report on. p. 507	A10.6:13
16th annual convention, 1902, report on (Crosby). p. 313	A10.6:14 A10.4:36
Report of executive committee—	110.4.00
Jan., 1889. p. 23	A10.5:1
Nov., 1889. p. 15	A10.5:2
1890. p. 19	
1892. p. 21	l •
1893. p. 19	
1895. p. 5	• • • • • • • • • • • • • • • • • • •
1896. p. 11	
1897. p. 11	
1898. p. 13	A10.3:65
1899. p. 11	A10.3:76

Index Classification no. Agricultural Colleges and Experiment Stations, etc.—Continued Report of executive committee—Continued

1900. p. 11	A10.3:99
1901. p. 19	A10.3:115
See also Agricultural Congress, National — Agriculture and Chem-	
istry Section — Agriculture Section — Agriculturists, conven-	
tions of, 1882 and 1883—Botany Section—Chemistry Sec-	
tion — College Work Section — Entomology Section — Horti- culture and Botany Section — Horticulture Section — Mechanic	
Arts Section.	•
Agricultural colleges and model farms, letter on (McChesney).	
1868. p. 460	A27.9:6
Agricultural colleges and other institutions in United States, having	
courses in agriculture:	
	A.1.8:39
List of— 1895. p. 557	A1.10:895
1895. p. 557	
1897. p. 622	
1898. p. 597	
1899. p. 671	
1900. p. 637	
1901. p. 615	A1.10:901
Organization, list of, with courses of study and boards of instruc-	
tion—	A10.3:1
1889. p. 24 1890. p. 37	
June, 1892. p. 33	
April, 1893. p. 32	
	A10.3:19
Jan., 1895. p. 27	
Jan., 1896. p. 27.	
Feb., 1897. p. 25	A10.3:39
Jan., 1898. p. 24.	
Jan., 1899. p. 7. Jan., 1900. p. 7.	
Jan., 1901. p. 9.	
Mar., 1902. p. 11.	
Agricultural Congress, National, proceedings of:	
[1st] annual meeting, Washington, D. C., Feb. 15-17, 1872.	
(Called convention)	A1.2:C76
same, report on. p. 59.	
3d annual meeting, Atlanta, Ga., May 13, 1874, report on. p. 258. 5th annual meeting, Philadelphia, Pa., Sept. 12–14, 1876, report	A27.9:12
on. p. 402	A27.9:14
Agricultural education:	
Address on (Hamilton). 1896. p. 48	A10.3:41
Advances in (Hays). 1893. p. 132	A10.3:16
• Belgium (De Vuyst). 1893. p. 703	A10.6:4
same (True). 1896. p. 361.	A1.10:896
Cooperation of Department of Agriculture in (Willits). p. 65 Europe (McChesney). p. 127	A1.1:868
European institutions for, some features of (True). 1897. p. 7	A10.4:32
Evolution of (Fairchild). 1898. p. 32	A10.3:49
Farmers' Institute as factor in creating desire for (Hamilton).	
1902. p. 68	A10.3:120
Finland (Woll). 1898. pp. 605, 703	A10.6:9
France (Smith). 1900. p. 115.	A1.10:900
Germany: 1878 - 221	A 10.5:99 A 97 0.14
General drift of, at land-grant colleges (Patterson). 1901. p. 99. Germany. 1876. p. 281. Great Britain. 1865. p. 8. No. 2	A27 9:3
Industrial and, paper relative to (McWhirter), 1885, p. 105	A1.7:9
Italy (Paparelli). 1893. p. 326	A10.6:4
Japan' (Tamari). 1885. p. 187	A1.7:9
Industrial and, paper relative to (McWhirter). 1885. p. 105 Italy (Paparelli). 1893. p. 326.  Japan (Tamari). 1885. p. 187  Limits of, under the law, at agricultural colleges (Knapp).	

Index	Classification ne.
Agricultural education—Continued	
Necessity of (Smith). 1883. p. 22	A1.7:2
same. New Jersey (Cook). 1882. p. 7.	A1.8:25
New Jersey (Cook). 1882. p. 7	A1.8:22
North Carolina (Holmes). 1883. p. 84 Popular, for farmer in United States (True). 1897. p. 279	
Practical and scientific (Liggett) 1900 n 48	A1.10:087
Practical and scientific (Liggett). 1900. p. 48	A10.4:32
same. 1898. pp. 605, 703	A10.6:9
United States (True). p. 157	A1.10:899
See also Agricultural colleges—Industrial colleges.	130 0 50
Agricultural engineer (Magruder). 1900. p. 103	A10.3:76
Agricultural experiment station as educator of farmer (Caldwell).	
1882. p. 20	A1.8:22
Agricultural experiment stations:	
Abstracts of reports of. 1889–1902	A10.6:
Address list of. 1893	A10.4:24
Agricultural conditions in U. S. as related to (Smith). 1900.	A10.3:49
p. 19.	A10.3:80
p. 19. Annual reports of U. S. stations for 1888, digest of	A10.3:21
Botanists at—	
functions of (Stone) 1901. p. 138. list of, with outline of work in botany. 1890	A10.3:99
Bulletins of—	A10.3:6
present and prospective (Ingersoll). 1893. p. 138	A10 3·16
what is mission of? (Goodell). 1895. p. 69.	A10.3:24
Collective exhibit at Paris exposition, 1900—	
catalogue of (Evans), 1900, p. 633	A10.3:80
committee report on preparation and care of (Harris). 1898.	A 1 0 0 - 4 0
p. 43 same (Armsby). 1899. p. 30	A10.3:49
same (Armsby). 1888. p. 30	A10.3:76
same (Armsby). 1901. p. 23	A10.3:99
Cooperative exhibit at World's Columbian Exposition—	
committee report on (Armsby). 1892. p. 24	A10.3:7
same (Armsby). 1893. p. 99	A10.3:16
favoring plan for (Harris). 1891. p. 43	A10.5:20
Coöperative experiments, call of meeting, Mar. 5, 1889, to discuss.	
Coöperative work between Agriculture Department and (Bryan).	
1901. p. 59	A10.3:99
Cooperation with—	
farmer's organizations in experiment work (Jenkins). 1895.	A10.3:24
Weather Bureau (Harris). 1893. p. 106	A10.3:16
Dairy work at (Allen). 1897. p. 359	A10.6:8
Entomological work in (Osborn). 1895. p. 85	A10.3:24
Entomologists' work in (Cook). 1891. p. 212	A9.7:3
Establishment and growth of, in U. S. (True). 1889. p. 73 Farmers' institute as promoter of closer intimacy between farm-	A10.3:1
ers and. 1902. p. 78.	A10.3:120
Food laboratories in connection with, suggestions for establishment	
of. 1893	A10.3:17
Foreign—	410.0 70
list of, Jan., 1899. p. 63	A10.3:59 A10.2:74
same, Jan., 1900. p. 69	A10.3:74
same, Mar., 1902. p. 85	A10.3:11
work of, etc. (Angerer). 1872. p. 297	A27.9:10
same (True and Crosby). 1902	A10.3:112
Grass and forage-plant investigations in (Williams). 1901. p. 148.	A10.3:99
Growth and purpose in America, address on (Jordan). 1901. p. 42. Historical and statistical report of, in U.S. (True). 1899. p. 513.	A10.3:99 A1.10:899
History and present status of, in U.S., report prepared for Paris	
Exposition, 1900 (True and Clark). 1900	

	Classincation ne
Agricultural experiment stations—Continued Horticulturists of—	
list of, with outline of work in horticulture at the several sta-	
tions (Alwood). 1889	A10.3:4
meeting of, at Columbus, Ohio, June 13, 14, 1889 (Harris)	A10.3:3
same, report of secretary (Bishop). p. 9	A10.3:3
some undefined duties and methods of (Rane). 1896. p. 76	A10.3:30
How can they reach and interest the farmers? (Roberts). 1889.	
p. 30	A10.5:1
Index to literature of. See Agricultural literature.	
Inspection of agricultural materials by, in U.S. (Allen and others).	
1900. p. 465	A10.3:80
Law governing, Agriculture Department's interpretation of vari-	
ous sections of. 1896	A10.4:29
Legislation regarding. 1889. p. 58.	A10.3:1
List of, giving location, names of directors, and principal lines of	
work—	
1894. p. 526	A1.10:894
1895. p. 558	
1896. p. 604	
1897. p. 624	A1.10:897
1898. p. 598 1899. p. 672	A1.10:898
1900. p. 638	
1901. p. 616	A1.10:901
List of, showing organization, with names of governing boards	
and station staff—	
1889 (preliminary list)	
1889. p. 28	
1890. Mar., p. 7	A10.3:5
' 1891. June'	A10.4:20
1892. June, p. 11	
1893. Apr., p. 9.	
1894. Jan., p. 9.	
1895. Jan., p. 7	
1896. Jan., p. 7	
1897. Feb., p. 5	
1898. Jan., p. 5	
1900. Jan., p. 43.	
1901. Jan., p. 47.	
1902. Mar., p. 11 (colleges also given in this list)	A10.3:111
Nomenclature used in publications of, recommendations regarding	1110.0.111
uniformity in. 1896. p. 65.	
same, 1899. p. 117	A10.3:65
Officers of, how can we increase attendance of, at our annual	
conventions? (Thorne). 1894. p. 61	A10.3:20
conventions? (Thorne). 1894. p. 61	A10.5:1
Organization of, in U. S.—	
chronological table of. 1889. p. 20	A10.3:1
history of (True)	A10.4:44
introduction to report (Colman). 1889. p. 5	A10.3:1
report on. 1889	
Publications of—	
lacking in library of Experiment Stations Office, Agriculture	
Department, list of, Nov. 1, 1892	A10.2:St2
list of, 1888–1899 (Harlow). 1900. p. 508	A10.3:80
uniformity of (Harris). 1894. p. 30	A 10.3:20
Records of, report on (Morrow). 1891. p. 102	A10.5:3
Reports of memorandum for 1889	A10 A.1
Road-making at, letter relative to cooperation of Road Inquiry	
Office in aid of (Stone) Station workers and revenues, in U.S. 1889. p. 22	A22.2:Ag8
Station workers and revenues, in U.S. 1889. p. 22	A10.3:1
Statistics, general, of, in U.S., 1899 (Davis). 1900. p. 501	A10.3:80
See also Agricultural colleges and experiment stations.	ı

	Classification no
Agricultural experiment stations—Continued	
Their object and work (True). 1895	A10.3:26
Variety testing in, progress of (Rane). 1901. p. 141	
What and why of. 1889	A1.9:1
What they have done in originating varieties of plants, by cross-	A 1 0 0 .00
ing, selecting, etc. 1901. p. 143	A10.3:99
(True)—	
1897	A 10 3:50
1898	
1899	
1900	
1901	A10.12:901
See also Explanatory note under A10.12:	
Work of—	4 7 0 4 7
committee report on, Oct., 1887	
handbook of. 1893in reform of vegetable nomenclature (Goff). 1890. p. 47	A10.3:15
on tobacco (Schulte). 1900	A10.5:5
permanent elements in (True)	A 10 4 · <b>20</b>
same, with additional remarks. 1896. p. 42.	A10.3:30
short reports on various subjects. 1890	A1.9:2
See also Experiment station work.	
See also Agricultural colleges and experiment stations — Alaska —	
Belgium — Bernburg Agricultural Experiment Station — Con-	
necticut — Darmstadt — Europe — Experiment Stations Of-	
fice — German Agricultural Experiment Station — Ghent —	
Grignon Agricultural Experiment Station — Halle — Hawaii —	
Holland — Hungary — Italy — New York State Experiment	
Station — Philippines — Porto Rico — Rothamsted Experimental Station — Switzerland — Veterinarians — Wyoming-	
Experiment Station.	
Agricultural experiment work:	
Cooperation of agricultural experiment stations with farmers'	
organizations in (Jenkins). 1895. p. 50	
Establishment of official methods of (Gulley). 1893. p. 147	
Relation of teaching to (Morrow). 1891. p. 67.	A10.3:7
See also Agricultural experiment stations, and references there-	
under — Field experimentation — Plat experimenting.	
Agricultural exports: Average prices for. 1901. p. 806	A 1 10-001
Distribution of, of U. S. (Hitchcock)—	111.10.001
1892–1896	A12.4:13
1894-98	
1895–99	A12.3:20
1896–1900	
1897-1901	
Reciprocity and. 1892. p. 391	A27.9:30
Tables of—	A 1 1.009
1826–62. p. 599	A27 Q.1
1868. p. 238	A27.9:7
1893. p. 490	
Agricultural exports and imports, reports on, 1893 to 1899	A12.4:
Agricultural expositions, results of, in Prussia, 1871, p. 456	A27.9:10
Agricultural fairs, list of. 1871. p. 353	<b>A27.9</b> :9
Agricultural grasses and forage plants of U.S., and such foreign	A 1 0 00
kinds as have been introduced (Vasey)	A1.8:32
Agricultural nydraulics (Unarpentier de Cossigny). 1891. pt. 1.	A 15 O.T72
p. 349 Agricultural implements:	A10.Z:11/
Ancient and modern machines and in 209	A1.1.870
Ancient and modern machines and. p. 392  Descriptive report (Watts). 1872. p. 352  Exhibition of, at Arnheim, Netherlands. 1870. p. 154	A27.9:10
Exhibition of at Arnheim. Netherlands. 1870. p. 154	A27.9:8
International statistics of. 1885. No. 23. p. 15	A27.9:23
International statistics of. 1885. No. 23. p. 15	A1.1:863
· · · · · · · ·	

•	Classification no.
Agricultural imports:	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Average prices for. 1901. p. 806	A1.10:901
Great Britain. 1868-69. p. 143.  Note on. 1866. p. 18	A21.9:0 A 97 Q:A
Sources of, of U. S.—	AZI.U.T
1892–96 (Hitchcock)	A12.4:12
1894–98	A12.3:17
1895–99	A12.3:21
1896-1900	
1897-1901	A12.3:28
Tables of— 1868–69. p. 299	A 97 Q.7
1868–69 continued	A27.9:8
1871. p. 131	
1871–72. p. 28	A27.9:11
1893. p. 490	A27.9:31
United Kingdom, 1896–1900 (Hitchcock). 1902	
Agricultural imports and exports, reports on, 1893 to 1899	A12.4:
1892	A10.3:10
Agricultural institutions founded on Congressional grant of 1862,	1110.0.10
what work is legitimate to? (Peabody). 1882. p. 42	A1.8:22
Agricultural libraries:	
Development of (Greathouse). 1899. p. 491	A1.10:899
Statistics of, those in U.S. 1899. p. 757	A1.10:899
Agricultural literature:	4 10 0.0E
Classification for (Cutter). 1899. p. 50	A10.3:00
explanation of, etc. 1900. p. 624	A 10.3:80
key to. 1893	A10.4:23
letter of Director of Experiment Stations office, relative to.	
1891 outline of (True). 1902.	A10.4:22
outline of (True). 1902.	A10.4:47
plan for, reported by committee of Association of Ameri-	
can Agricultural Colleges and Experiment Stations.  1897–98. p. 18.	A 10 3.40
same, 1899. p. 50	A10.3:65
same, 1901. p. 73	A10.3:99
Terms of sale of	
Agricultural machinery. See Agricultural implements.	
Agricultural materials, inspection of, by Agricultural experiment	A 10, 0.00
stations in U.S. 1900. (Allen and others.) p. 465	A10.3:80
Agricultural museum. See Agriculture department — Berlin.	
Agricultural nomenclature. See Agricultural experiment stations,	
nomenclature used in publications of.	
Agricultural officials of foreign countries, list of:	
1899. p. 720 1900. p. 674	A1.10:899
1900. p. 6/4	A1.10:900 A1.10:901
1901. p. 640	A1.10.001
Agricultural ornithology (Michener). p. 287.	A1.1:863
Agricultural patents of year 1869. p. 315.	
Same. 1871. p. 211	A1.1:871
See also Patents.	
Agricultural pests. See Caterpillars — Fungi — Insects — Weeds.	
Agricultural products: American—	
foreign markets for, testimony before Industrial Commission	
relative to (Hitchcock). 1901.	A1.8:67
relative to (Hitchcock). 1901. Germany as an importer of. 1894. p. 32	A27.9:32
Annual, modes of estimating, 1864. No. 2, p. 7	⊢ <b>A27.9:2</b>
Are they declining? 1876. p. 457.	A27.9:14
Divergity in (Pleasants) = 247	AZ7.9:10
Are they declining? 1876. p. 457.  Australia. 1863-72. p. 516.  Diversity in (Pleasants). p. 247.  European customs duties on. 1885. No. 18. p. 39.	A27.9.23
	LANT O W

	Classification no
Agricultural products—Continued	Ī
Exports of—	
1890–94. p. 540	
1891–95. p. 543	
1897. p. 736	
1898. p. 712	
1899. p. 829	
1900. p. 847	
1901. p. 799	A1.10:901
1890–94. p. 545	A1 10.004
1895. p. 536	
1894–98. p. 692	
1890–99. p. 793	A1.10:899
For American consumption (Dodge). 1884. No. 11, p. 41; no.	221.10.000
13, p. 23.	A27.9:22
Foreign tariffs on. 1891. p. 538	A27.9:29
Foreign trade in—	
1892. p. 308	A27.9:30
1893–97 (Hitchcock)	A12.3:10
1894–98	
1890–99	
1891–1900	·
1892–1901	A12.3:27
Imports of—	4 7 7 7 7 7 7 7
1891–94. p. 543	A1.10:894
1891–95. p. 548	A1.10:895
1897. p. 736	
1898. p. 705	
1899. p. 823 1900. p. 840	
1900. p. 840 1901. p. 792	
Permanency of. 1891. p. 135.	A 27 Q · 20
Prices and (Holmes). 1897. p. 577.	A1 10.897
Principal, of world, production and distribution of. 1893	A27 8.5
Prussia. 1869. p. 149.	A27.9:7
Prussia. 1869. p. 149.  Trade of San Francisco in. 1864-65. No. 6. p. 28.	A27.9:3
United States and Canada. 1865. No. 9. p. 18	A27.9:3
Wholesale prices of, in leading cities in U. S.—	
1890–1894. p. 534	A1.10:894
1895. p. 537	A1.10:895
1899. p. 799	A1.10:899
1900. p. 823	
1901. p. 773	A1.10:901
See also American products—Crops—Farm products.	107.04
Agricultural products and manufactures, 1865–66. p. 433	A27.9:4
Agricultural resources: Alaska (Dall). p. 170	A1 1.000
California (Dunn). p. 581	
Eastern Oregon and Washington Territory (Ritz). 1869. p. 384*.	A97 Q.7
Jefferson County, Colorado (Berthoud). 1869. p. 381*	A27.9.7
Montana Territory. p. 431	A1 1:871
Wyoming Territory. p. 548.	A1.1:870
Agricultural resources and capabilities:	
Hawaii (Stubbs). 1901	A10.3:95
Porto Rico (Knapp). 1901	A10.2:P83
Agricultural schools. See Agricultural colleges—Welch, A. S.	
Agricultural science:	
Pioneer in; Edmund Ruffin (Cutter). 1895. p. 493	A1.10:895
Progress in recent (Atwater). 1874. p. 26.	A27.9:12
Work and experiments in, abstracts of reports of experiment	110.0
stations on, 1889–1902.  Agricultural season, length of (Abbe). p. 255.	A 10.0:
Agricultural seeds. See Seeds.	AZ9.0:27
Agricultural societies:	
Foreign, exchanges with. p. 256	A1 1-980
	·
*By a misprint, this page number appears twice.	

Classification no.

	Classification 1
Agricultural societies—Continued	
List of—	
1867. p. 364	A1.1:867
1870	
1872	
1876	
Notes on. 1871. p. 471 See also Allied National Agricultural Societies of America—Illi-	A21.0.0
nois State Agricultural Society — Montgomery County, Md.,	
Agricultural Society — New York Agricultural Society.	
Agricultural statistics:	
Based on census returns. 1894. p. 741	A27.9:32
British colonies. 1870. p. 291	A27.9:8
same. 1875. p. 455	A27.9:13
Canada. 1884. No. 4. p. 40	A27.9:22
Centennial album of (Dodge). 1876	
Colorado. 1869. p. 296 *	
Eleventh U. S. census, discussion of (Hyde). p. 12	A4 3·11
Furnner 1977 p 577	A1 1.877
European. 1877. p. 577 Exhibits illustrating, at World's Industrial and Cotton Exposi-	A1.1.077
Exhibits illustrating, at world's industrial and Cotton Exposi-	A 1 0.40
tion at New Orleans, La. (Dodge). 1885	A1.8:40
Great Britain—	
1866. p. 340	A27.9:4
1867. p. 58	A27.9:5
1868. p. 407	<b>A27.9:6</b>
1869–70. p. 142	A27.9:9
'India. 1875. p. 448	A27.9:13
Ireland—	
1866. p. 383	A 27. 9:4
1867. p. 338	
1870. p. 435	
1872. p. 496	
1875. p. 453	A27.9:13
1876. p. 484	A27.9:14
Monroe County, Iowa. 1869. p. 301 *	$\mathbf{A27.9:7}$
Netherlands. 1886. p. 406	A27.9:24
Official, of foreign countries—	
1892. p. 79	A27.9:30
1893. p. 78	
Ontario. 1874. p. 462	
Practical hints from (Dodge). p. 146.	A1 1.873
Reports and tables of—	22.1.1.010
	411.000
1859 and 1862. p. 546	A1.1:004
1864. No. 6. p. 22	
1882. p. 23	AZ7.9:20
Uruguay. 1894. p. 268	
Utah. 1865. p. 90.	A27.9:4
Value and history. 1882. p. 149	$\mathbf{A1.8:22}$
Agricultural survey:	
South (Peters). 1867. p. 192	A27.9:5
Wyoming (Hoyt). 1893	A27.8:7
Agricultural syndicates of France. 1889. p. 523	
Same. 1890 n. 577	A 27. 9:28
Agricultural tonography and resources of Montana Territory, p. 431	A1.1:871
Agricultural topography and resources of Montana Territory. p. 431. Agricultural wages in France. 1876. p. 421	427 9.14
Agriculture:	
	4.97 0.99
Aided by other industries. 1884. No. 4. p. 21. Algerian, note on. 1876. p. 433	197 0.14
Amorios	A21.8:14
American—	100013
condition of. 1873. p. 51 weeds of (Darlington). p. 509	AZ7.9:11
weeds of (Darlington). p. 509	A1.1:865
Angora, notice of receipt of letter from Minister Terrell relative to.	A1.2:An4
Animal and insect enemies of, conflict of Russian zyemstvos with	
(Morachevski). 1902. p. 61	A9.6:38
Arbor day, relation to (Skinner). p. 34	A1.8:56
*By a misprint, this page number appears twice.	_
by a mapling, one page number appears twice.	

migultuma Continued	Classificatio
riculture—Continued Australasia. 1888. p. 284	A 27 Q-98
Biological survey and. 1890. p. 125	A5 5.3
Birds, some common, in their relation to (Beal)	
Bolivia. 1891. p. 546	A27.9:29
Bolivia. 1891. p. 546.  Bosnia and Herzegovina, development of. 1894. p. 197	A27.9:32
Brazil. 1891. p. 196.	A27.9:29
California—	
notes on. 1872. p. 199	A27.9:10
same, for 1862.	A1.1:862
same (Hilgard). p. 476.	
situation in (Mead). 1901. p. 17.	
Caucasus. 1893. p. 202	
Centennial of American Independence, relation to. p. 288	A1.1:871
Chemistry in its relation to progress of (Wiley). 1899. p. 201	
Chile. 1891. p. 285.	
China. 1893. p. 23	A27.9:32
Chinese labor in. p. 572	A1.1:870
Colleges of. See Agricultural colleges.	A1.1.070
Colorado, notes on (Thomas). 1869. pp. 284,* 379*	A 97 Q.7
Common schools. 1868. p. 92.	A 97 Q.A
same (Adams). 1885. p. 174	
Conditions and resources of U.S., circular on (Newton). 1862	A1.7.5 A1.8:1
Conditions in IT S. conoral as related to work of agricultural	A1.6:1
Conditions in U.S., general, as related to work of agricultural	110 9.00
experiment stations (Smith). 1900. p. 19	A10.3:80 A27.9:29
Contributions of, to international commerce. 1891. p. 77	A27.9:29
Cooperation in. 1874. p. 501. Cornell University (Craig). 1901. p. 137.	A27.9:12
Cornell University (Craig). 1901. p. 137	A10.3:99
Correspondence courses in (Craig). 1902. p. 50	A10.5:110
Cotton States, condition of (Howard). p. 215.	A1.1:874
Course in, in East, principles underlying formation of (Roberts).	A 10 0 50
1900. p. 65	A10.3:76
same, in South (Coates). 1900. p. 59	A10.3:76
Cuckoos and shrikes in their relation to. 1898	A5.3:9
Departments of, in land-grant colleges, requirements for admission	A 1 10.00
to and cost of attendance. 1900. p. 674	A1.10:90
Depression in, and its causes. 1890. p. 88.	
Ecuador. 1891. p. 484	A27.9:29
Education and research in, in U. S. (True). 1894. p. 81	A1.10:89
Education in. See Agricultural colleges and experiment sta-	
tions — Agricultural education.	
Educational forces in U. S. relating to cooperation of Department	A 1 1.001
of Agriculture with (Willits). p. 65	
English sparrow in its relation to (Barrows). 1889	A5.3:1
Estimation and importance of ash constituents of plants to (Tol-	A 10 0.10
lens). 1902. pp. 207, 305	A10.6:13
European, American competition with. 1883. No. 64. p. 31	A27.9:21
Experiment, its conception and methods of procedure (Bolley).	A 10 9.40
1898. p. 47.  Experimental at metaprological stations (Abba) 1002 p. 410	A10.3:49
Experimental, at meteorological stations (Abbe). 1902. p. 410.	A29.6:30
Facts in, current—	A 1 1.000
1868. p. 435	A1.1:868
1869. p. 428	
1870. p. 438	A1.1:870
1871. p. 228	A1.1:871
1872. p. 433	A1.1.8/Z
1873. p. 272	
1874. p. 265	A1.1.8/4
See also Farm facts and experiments.	
Foreign—	
investigations in, abstracts of reports of agricultural experi-	440.0
	A10.6:
ment stations on, 1889–1902	A27.9:
notes on, monthly	1000
notes on, monthly France. 1893. p. 4	A27.9:31
notes on, monthly	A27.9:31 A27.9:22

Classification	mo.

Agriculture—Continued	
French schools of. 1874. p. 212	A27.9:12
Georgia, climate, soil, and (Hemphill). 1882	A1.6:47
German, letter on (Klippart), 1865, No. 6, p. 6	A27.9:3
Grasses needed for, in U.S. (Vasey). 1885. p. 168	A1.7:9
Great Britain's returns. 1867. p. 379	
Guianas. 1891. p. 682	A27.9:29
Hawks and owls in their relation to (Fisher). 1893	A5.3:3
History of, of U. S. (Poore). p. 498	A1.1:866
agriculture (Burrows). 1900. p. 325	A 1 10.900
Hundred years' progress in (Flint). p. 275	A1.1:872
Idaho Territory (Whitson). 1869. p. 369.	A27.9:7
Improvement in. 1874. p. 99	A27.9:12
India, account of (Siva). 1874. p. 389	A27.9:12
Industries other in their relation to—	
1871. p. 449	A1.1:871
1883. No. 3. p. 21	A27.9:21
1884. No. 4. p. 21	
Industry in, our new (Roberts). 1901. p. 124.	A10.3:99
Investigations in. See Agricultural experiment stations, and references thereunder.	
Italy. 1871. p. 204.	A 97 Q.Q
same (Andrews). p. 283	A1 1:876
Japan (Capron). p. 364	A1.1:873
same, 1891. p. 563	A27.9:29
Lane County, Oreg. 1870, p. 84	A27.9:8
Maine, some outlines of (Boardman). p. 39	A1.1:862
Maine, some outlines of (Boardman). p. 39.  Mammalogy and ornithology of New England in its relation to.	
(Samuels). $p. 265$	A1.1:863
Meteorologist, work of, for benefit of (Bigelow). 1899. p. 71	A1.10:899
Mexico (Hinton). 1884. No. 13. p. 27.	
Morocco (Collins). p. 499	A1.1:802
Mortgage a burden upon. 1886. p. 189. Nebraska. 1869. p. 140.	A21.8.24 A97 Q.7
Netherlands. 1869. p. 387	A27.9.7
New Jersey, southern. 1868. p. 140	
New Mexico, notes on (Thomas). 1869. p. 379*	A27.9:7
Old World. 1873. p. 557	A27.9:11
Oregon. 1871. p. 129.	A27.9:9
Organization of (Brown). 1882. p. 108	A1.8:22
Paraguay. 1891. p. 610	
Persia. 1873. p. 507	A27.9:11
Peru. 1891. p. 354	
Philadelphia Centennial Exposition. 1876. p. 248	A27.9:14
Portugal. 1871. p. 141	A 27 Q.Q
Potash and its functions in (Wiley). 1896. p. 107	
Practical—	
nitrogen assimilation in its application to. 1897. p. 906	A10.6:7
scientific work of Department of Agriculture in its relations	
to (Willets). p. 59	A1.1:890
Prices, course of, in. 1890. p. 287	A27.9:28
Prizes for essays on. 1870. p. 281	A27.9:8
Production and distribution of world. 1892. p. 380	A27.9:30
Products of, freight charges for ocean transportation of, Oct. 1,	A97 2.19
1895-Oct. 1, 1896. Professors of, what shall they teach? (Harwood). 1893. p. 139	A10 3:16
Puerto Rico (Stone). 1898. p. 505	A1.10:898
Puerto Rico (Stone). 1898. p. 505  Railroads, relation to (Richards). 1902. p. 107.	A10.3:120
Rural schools (Powell). 1902. p. 109	A 10.3:120
Russia. 1875. p. 36	A27.9:13
Russia. 1875. p. 36 Scientific notes on. p. 611	A1.1:870
Scientific work of Agriculture Department in (Dabney). 1895. p. 63	A10.3:24
Scientific work of Agriculture Department in (Dabney). 1895. p. 63 Scotland (Higgins.) p. 213 Seasons, natural phenomena of, connection with (Russell). p. 329.	A4.1:898
	A1.1:504
* By a misprint, this page number appears twice.	1

	Classification m
Agriculture—Continued	
Secondary courses in. 1902	A10.4:49
Soil ferments, important in (Wiley). 1895. p. 69	1
1892	A27.8:2
South Carolina, climate, soil, and (Hemphill). 1882	
Spain (Cushing). p. 287	A1.1:0/0 A5 9.15
State officials in charge of—	A0.5.10
1898. p. 609	A1.10:898
1899. p. 686	
1900. p. 641	
1901. p. 620	
State reports of—	44 - 00-
1867. p. 333	
1868. p. 472 1869. p. 516	A1.1:000
1869. p. 516 1870. p. 487	
1871. p. 347	
1872. p. 462	
1873. p. 375	
1874. p. 381	
1876. p. 363	
Statistics, practical hints, etc	A27.9:
See also Agricultural statistics.	4 OF 0 OO
Surplus products of. 1884. No. 6. p. 29	A27.9:22
how may farmers' organizations hasten, in public schools	
(Voorhees). 1902	A10.3:120
in public schools (James). 1902. p. 84	A10.3:120
methods of, remarks on (Hunt). 1896. p. 35	A10.3:30
same (Hays). 1896. p. 37	A10.3:30
same (Cooké). 1896. p. 39	A10.3:30
methods of, report of committee of Association of American	
Agricultural Colleges and Experiment Stations—	110 9.41
1st report, 1896. p. 57same, 1896.	A 10.3:41 A 10 A :29
2d report, 1898. p. 29	A10.3.49
same	A10.4:37
3d report, 1899. p. 79	
same	A10.4:39
4th report, 1900. p. 37	
same	A10.4:41
5th report, 1901. p. 86	
report on (Harris). 1895. p. 43.	A 10.4.40 A 10.2.94
successful experiment in. 1873. p. 277	A27.9:11
Territories. p. 601	A1.1:869
Texas, southern. 1889. p. 264.	A27.9:27
Tropical islands of U. S. (Cook). 1901. p. 349	A1.10:901
Tuspan, Mexico (Johnson). 1874. p. 498.	A27.9:12
United States' progress in (Holmes). 1899. p. 307	A1.10:899
Uruguay. 1891. p. 671 Valley of Rio Grande. 1870. p. 479	
Virginia, status of. 1870. p. 267.	
Washington Territory, statistics of (Simmons). 1869. p. 370	A27.9:7
Western America, condition of. 1871. p. 329	A27.9:9
See also Alaska — American products — Animals, domestic —	
Barns — Bees — Botany — Butter — Cattle — Cereal crops — 1	
Cheese—Coffee — Corn — Cotton — Cow — Crops — Dairy —	
Domestic science — Drainage — Ensilage — Farmer — Farm-	
ing — Farms — Fertilizers — Field crops — Flax — Forestry — Fruit — Gardening — Grain — Grape — Grass — Greenhouses —	
Irrigation — Maize — Manures — Milk — Pacific coast — Poul-	
try — Soils — Southern agriculture — Sugar — Tobacco —	
Trees — Vegetables — Wheat — Wool — Yukon Valley —	
headings beginning with Agricultural.	

	Index
	Classification no.
Agriculture, Assistant Secretary of, duties of, special report on (Wil-	A 1 . 1 . 0 0 0
lits). p. 67	A1.1:892 A1.
Agriculture and agricultural science, some books on, published 1893-	A1.
96 (Hall)	A10.4:31
Agriculture and botany of Rocky Mountain basins (Thompson).	111011101
p. 125.	A1.1:866
Agriculture and chemistry section, Association of American Agri-	
cultural Colleges and Experiment Stations, report of:	1.00.00
1892. p. 129	A10.3:16
1893. p. 91 1894. p. 77	A10.3:20 A10.3:24
1894. p. 77 1895. pp. 10, 83	
1896. pp. 13, 88	
1897. pp. 22, 69	A10.3:49
1898. pp. 27, 110	A10.3:65
1899. pp. 14, 66	A10.3:76
1900. p. 102	
1901. p. 68	A10.3:115
See also Agriculture section — Chemistry section.  Agriculture and Forestry, Exposition of. See Belgium — Vienna.	
Agriculture and industries, ideal department of (Tisserand). 1896.	
p. 543	A1.10:896
Agriculture and related sciences, some books on, published 1896-98,	
list of	A10.4:38
Agriculture and rural economy, American works on. p. 597	A1.1:868
Agriculture Committee, House of Representatives:	A 10, 0, 14
Hearings by, on subject of good roads. 1893. p. 85	A10.3:14 A97 0.12
Agriculture Department:	A21.8.13
Annual reports, index to, 1837–1876	A1.8:14
same, supplement 1877-85.	A1.8:42
same. $1837-93$ (Thompson)	A21.3:1
Appropriations and expenditures, 1839 to 1877, statement of	A1.8:13
Appropriations for fiscal years—	. A 1 10.000
1896 and 1897. p. 658. 1897 and 1898. p. 622	
1897, 1898, and 1899. p. 596.	
1898, 1899, and 1900. p. 670	A1.10:899
1899, 1900, and 1901. p. 636	A1.10:900
1900, 1901, and 1902. p. 614	A1.10:901
Architect's report (Cluss). p. 15	A1.1:868
Assistants in, civil service examinations for (Abbe). 1898. p. 564.	
Building and grounds. p. 191	A1.1:868
in (Cluss and Kammerhueber). 1867	A1.2:Sp3
Bulletins and circulars of, available for free distribution, circu-	
lars relative to	A21.5:
Bureau of Information and Exchanges in, address favoring crea-	
tion of (Woodhull). 1885. p. 90.	A1.7:5
Business methods in (Colman). 1888	A1.2:U/1
Civil service in. 1896.	
same (Dabney). 1897	
Consular correspondence of (Dodge). p. 487	A1.1:864
Cooperation of, with educational forces in United States relating	
to agriculture (Willits). p. 65	
Cooperative work between experiment stations and, report of	. A 10, 9-00
committee on (Bryan). 1901. p. 59	A10.539 A1 1.977
same. 1880. n. 609	A1.1.880
same. 1880. p. 609 Cost and profit of. 1871. p. 124	A27.9:9
Economic plants in collection of, catalogue of (Saunders)	A1.8:47
Employees of—	1
number, status, and compensation; July 1, 1897	, A1.4:6

inaex	Classification no.
Agriculture Department—Continued Employees of—Continued	
outside of Washington, leave of absence not allowed to, letter	A 1 O.T 40
traveling expenses of, allowances for Exhibits of, at Philadelphia, Centennial Exhibition, 1876—	A1.2:T69
note on. p. 133 vegetable fibers in (Dodge). p. 497	A27.9:14
Exotic collection of, plants in, descriptive catalogue of (Saunders).	
1872 Experimental farm of. 1866. p. 241	A27.9:4
Financial transactions with, regulations governing. 1894	A2.2:F49
Fiscal regulations of	AZ.Z:P0Z
Grass and forage-plant investigations in (Williams). 1901. p. 148 Historical sketch of, its objects and present organization (Great-	A10.3:99
house)	A21.3:3 <sup>1</sup> A1.8:7
annual reports, 1837–1876.	A1.8:14
same, supplement, 1877–1885	A1.8:42
same, 1837–1893 (Thompson)	A21.3:1
general index for reports on agriculture, 1847–1866. p. 473 same, authors, with titles of their publications, 1841–1897 (Thompson).	A1.1:867 A21.3:4
same, list by titles, 1840 to June, 1901. (Handy and Can-	A21.3.4
non)	A21.3:6
same, 1889–1893	A1.8:55
same, 1841 to June 30, 1895 (Hasse)	A17.3:9
Letter as to work and needs (Le Duc). 1880Library of—	
botany publications in, catalogue of. 1902publications of	A17.3:42
Museum of, donations to—	AII.
1862-63. p. 615	A1.1:862
1867. p. 470	A1.1:867
1869. p. 636	A1.1:869
1870. p. 673	
1872. p. 512	
1873. p. 447	A1.1:873
Mutual interests and relations of farmer and, farmers' institute as medium for developing (True). 1902. p. 102	A 10 3-120
Notice of receipt of communications on various subjects. 1893 Nutrition investigations of, development of (True and Milner).	A1.2:N84
1899. p. 403	
1895. p. 523	A1.10:895
tional Exposition, Atlanta, Ga	1
1896. p. 555	
1897. p. 619	
1898. p. 593	
1899. p. 667	A1.10:899
1900. p. 633	A1.10:900
1900. p. 633 1901. p. 611 1901–1902	A1.10:901
Oscinidæ and Agromyzidæ reared at, habits of (Coquillett).	AZ1.4:1
1898. p. 70 Philadelphia Centennial Exhibition, 1876, participation in (Saun-	A9.6:10
ders)	A1.2:P53
Promotions, etc., regulations governing. Dec. 1, 1896	A1.2:P94 A21.2:P96 <sup>1</sup>
Publications of—	
abstracts of, 1889–1902.  arranged by bureaus and offices, with their various series  circulars regarding	A1-A29

	Classification no
Agriculture Department—Continued	
Publications of—Continued	
distribution of, orders relative to	A1.2:P96
indexes. See Agriculture Department, indexes and lists.	
lists of available, etc	A21.2:
monthly list	A21.6:
notes regarding, list, etc.—	
1895. p. 616	A1.10:895
1896. p. 636	A1.10:896
1897. p. 627	A1.10:897
1898. p. 601	A1.10:898
1899. p. 676	A1.10:899
1900. p. 686	A1.10:900
1901. p. 683	
price lists of	A21.8:
special list of those available for distribution to correspond-	
ents and others rendering service to Department	A21.2:P96 <sup>8</sup>
Relation of, to farmers' institutes (True), 1902, p. 22	<b>A</b> 10.3:110
Relation of Weather Bureau to (Calvert). 1899. p. 54	A29.3:24
Scientific aids and assistants of, note on. 1899. pp. 213, 548	A29.6:27
Scientific work of—	
address on (Dabney). 1895. p. 63	A10.3:24
in its relation to practical agriculture (Willets). p. 59	A1.1:890
Seed and plant introduction work since 1897 (Smith) 1901. p. 145.	A10.3:99
Seed tests. See Seeds.	
Sketch of. 1871. p. 257	A27.9:9
Student assistants in. 1901. p. 687	A1.10:901
Tobacco culture (Whitney). 1901. p. 108	A10.3:99
United States, plants in, catalogue of. 1891	A1.2:P69
Unskilled laborer in, instructions to applicants for appointment	
ая. 1902	A16.2:In7
same, regulations governing appointments. 1902	A16.2:R26
What it is doing for irrigation (Mead). 1902	A10.4:48
Work of, as illustrated at Atlanta Exposition. 1895. p. 503	
Agriculture Department and Cotton Exchange reports. 1886., p. 496.	
Agriculture Department and its work (Hill). 1898	A21.2:Ag8
Agriculture section, Association of American Agricultural Colleges	Ŭ
and Experiment Stations, report of:	
1890. pp. 81, 108	A10.5:3
1891. p. 89.	A10.3:7
1892. p. 28.	A10.3:16
See also Agriculture and chemistry section.	
Agriculturist, work of Signal Service Bureau for (Birkheimer). 1882.	_
n. 110	A1.8:22
same, 1885, p. 191	A1.7:9
Agriculturists, convention of, held in Department of Agriculture,	
proceedings of, Jan. 10-18, 1882. 1882.	A1.8:22
same, second convention, proceedings of, Jan. 23-29, 1883. 1883.	A1.7:2
Agrilus, food plants and injury of, North American species of (Chit-	A O. C. 00
tenden). 1900. p. 64.	A9.6:22
Agromyzidæ, reared at Department of Agriculture, habits of (Coquil-	A9.6:10
lett). 1898. p. 70. Agronomic Institute, National, of France. 1876. p. 490	A27.9:14
Agropyron, native and introduced species of (Scribner and Smith).	A21.0.1%
1807 n 92	A3.3:4
1897. p. 23 Agrostological notes, circular	A3.4:27
Agrostology:	A3.
Economic and scientific, progress of (Scribner). 1899. p. 347	
Systematic recent additions to 1899	A 2 4.15
Systematic, recent additions to. 1899  Agrostology Division, Agriculture Department	AS. 1.10
Field work of: review and summary of work done since organize.	1101
Field work of; review and summary of work done since organiza- tion of division, July 1, 1895 (Shear). 1901	A3 3.25
Publications of, list of (Scribner). 1901.	A3 4.36
8ame (Snillman) 1902	A19 2-P98
work of, for farmer (Scribner). 1897. p. 160	A1 10.897
Alguillon, France, black rot of granevine treatment of experi-	
ments made at, in 1888 (Prillieux). 1889. p. 49	A6.3:10
, , , , , , , , , , , , , , , ,	· <del></del> <del>-</del>

Index	83 1 A A1
Aikan D Wyatt Grange its origin progress and advectional pur-	Classification no.
Aiken, D. Wyatt. Grange, its origin, progress, and educational purposes. 1883	A1.6:55
Same, p. 56	A1.7:2
Ailanthus silkworm of China, additional observations on (Morris).	411000
p. 390	A1.1:862
Cold, in low lands (Abbe). 1896. p. 14	A29.6:24
Currents of, in thunderstorms, note on (Abbe). 1899. p. 366	A29.6:27
Exploration of, with kites, progress at Blue Hill Observatory,	A 000 0 000
Mass. (Rotch). 1898. p. 355.  Free, at great altitudes, variations of temperature of (Abbe). 1902.	A29.6:26
p. 316	A29.6:30
Liquid, note on (Abbe). 1897. p. 18	A29.6:25
same; 1899, p. 110.	A29.6:27
Temperature of, monthly notes on, July, 1891–Oct., 1902	A29.6: A29.6:25
61.	1120.0.20
Warm, attending low areas (Abbe). 1894. p. 464	A29.6:22
See also Aerial observations—Atmosphere—Ballooning—Barom-	
eter — Meteorology.  Aitken, A. P. Fiber determination in Scotland. 1894. p. 172	A 7 3.43
Aitken, John. Atmospheric dust observations. 1896. p. 734	
Alabama:	
Cattle trade and dairy interests of (Perry). p. 335	
Cotton in, 1866. p. 280	A27.9:4 A27.9:6
Farmers' institute work accomplished in (Cary). 1902. p. 15	A10.3:120
Negro in, dietary studies with reference to food of, in 1895 and	
1896 (Atwater and Woods)	A10.3:38
Plant life of (Mohr). 1901	A6.5:6
ston). p. 1	A22.4:33
See also Jefferson County.	
Alamance County, North Carolina, soil survey of (Coffey and Hearn).	4 90 E.001 l
p. 297 Alamos, Mexico, plants collected by Edward Palmer at, in 1890, list	A26.5:901 <sup>1</sup>
of (Rose). 1891. p. 91.	A6.5:1
Alaska:	
Agricultural capabilities of, investigation of— 1st report, 1897	A 10 2.48
2d report, 1898	
3d report, 1899 (Georgeson)	A10.3:82
4th report, 1900 (Georgeson)	A10.3:94
Agricultural experiments in (Georgeson). 1898. p. 515same, p. 7	
Agricultural outlook of coast region of (Evans). 1897. p. 553	A1.10:897
Agricultural resources of (Dall). p. 170	A1.1:868
Agriculture in—	A 07 (0.91
1893. p. 75 1898. (Evans). p. 4	A27.9:31 A10.3:48
1898. (Killin). p. 29	A10.3:48
Botanical survey in 1898 (Evans). p. 48	A10.3:62
Climate and crop report of, 1898 (Ball). p. 548	A29.6:26
Climate of (Henry)— 1897. p. 248	A 29, 6 · 25
1899. p. 50	A10.3:62
Climate of (Moore). 1897  Farmers in, pioneer, suggestions to (Georgeson). 1902	A29.2:Al1
Farmers in, pioneer, suggestions to (Georgeson). 1902	A10.10:1
Farmers' institute work accomplished in (True). 1902. p. 33 Food fishes of. p. 375	A10.3:120 A1.1:870
Food fishes of. p. 375 Interior of, reconnoissance along trail from Eagle to Valdez (Jones). p. 283 Meteorological data, 1874–1901 (Kimball). p. 369	
(Jones). p. 283	A10.12:901
Meteorological data, 1874–1901 (Kimball). p. 369	A29.6:30
Meteorological observations in— 1894 (Tibbey) p. 174	A 29. 6:22
1894 (Tibbey). p. 174 1895 (Abbe). p. 256. 1898 (Henry). p. 154	A29.6:23
1898 (Henry). p. 154	A29.6:26

	Classification no.
Alaska—Continued	Classificación dos
Weather Bureau service in (Ball). 1898. p. 254	A29.6:26
same (Abbe), 1899, p. 59	A29.6:27
See also Circle City—Cook Inlet region—Copper River country—	
Dyea — Eagle — Kenai experiment station — Nome, Cape — St. Michael — Tanana Valley — Yakutat Bay — Yukon Valley.	
Alaska agricultural experiment stations:	
Annual report for 1901 (Georgeson.) p. 239	A10.12:901
Bulletins of	A10.10:
(Vasey.) 1892	A6.2:N822
Same	A6.3:13
Albany, N. Y.:	
Elm leaf-beetle in (Lintner). 1895. p. 50	A9.6:2
Tornado at, March 26, 1895. Report of (Sims). p. 92	A29.6:23
coast of America, list of. 1892. p. 135	A6.5:1
Albert, Prince of Monaco. Meteorological observatories, creation of,	•
on islands connected by cable with a continent. 1894. p. 158.	
Albumen, determination of, in cow's milk (Van Slyke). 1894. p. 188.	A7.3:43
Albuminoid nitrogen, determination of, error in present official method for (Snyder). 1891. p. 39	A7 3·31
Albuminoids in milk, estimation of (Sebelien). 1889. p. 169	
Alcohol:	
Sulphurous acid in manufacture of (McMurtrie). 1873. p. 32	A27.9:11
Use of, in manufacture of sugar (Gilbee). 1891. p. 8	A7.3:34
1889. p. 71	A7.3:24
1889. p. 71 Alcoholic beverages, fermented, adulteration of (Crampton.) 1887. p. 263	
p. 263	A7.3:13 <sup>3</sup>
See also Liquors.	
Aldrich, J. M.: Insects of North Idaho, notes on, 1894, p. 201	A9.7:7
Insects of North Idaho, notes on. 1894. p. 201	A9.7:4
Spraying without pump, preliminary notice. 1894. p. 114	A9.7:7
same, report on. 1895. p. 28	A9.6:2
Aldrich, William S. Engineering experiment stations, report of committee on, before Convention of American Agricultural	
Colleges and Experiment Stations. 1896. p. 116	A10.3:41
Aletia. See Cotton worm.	
Aleurodidæ, American, contributions toward a monograph of.	10.0.0
(Quaintance.) 1900. p. 9	A9.8:8
Alexander, Edward Porter:	
Hurricanas destructive formes of and conditions of safety and	
danger, 1896. p. 153 Storm waves of South Carolina and Texas. 1900. p. 381	A29.6:24
Alexander, William H.:	A29.6:28
Basseterre, St. Kitts, W. I. Flood of Jan., 1880, at. p. 196	A29.6:27
Climatology of Antigua, W. I. 1901. p. 165.	A29.6:29
Climatology of St. Kitts—	
1899. p. 582	A29.6:27
1900. p. 330	A29.0:28 A29 6:29
Hurricanes, especially those of Porto Rico and St. Kitts. 1902	A29.3:32
Rainfall—	
relation of, to mountains. 1901. p. 6	A29.6:29
St. Kitts, W. I. 1900. p. 487	A29.6:28
St. Kitts, W. I., additional observations of hurricane. 1899.	
p. 409	A29.6:27
p. 409 Thunder storms at Antigua, W. I. 1900. p. 380	A29.6:28
Aleyrodes citri:	
Fungous parasite on. Preliminary notice of (Webber). 1891.	A28.5:7
p. 363	A9.7:5
See also Aleurodidæ.	

Index	Classification no.
Alfalfa or lucern:	
As a fertilizer. 1901. p. 6.	A1.9:133
California. 1872: p. 296	A27.9:10 A1 1.884
Cultivation of (Henderson). p. 566	A6.4:14
Report on. p. 394	A1.1:875
Same (Smith). 1895	A1.9:31 A1 0:58
Turkestan, report on (Kennedy). 1900.	A3.4:25
When to cut (Langworthy). 1899. p. 24	A1.9:105
Alfalfa hay for hogs. 1899. p. 15	
Algerian agriculture. 1876. p. 433.	A27.9:14
Algerian durum wheats, classified list, with descriptions (Scofield).	
1902 Algiers, Africa, irrigation by artesian wells in. 1891. pt. 1. p. 369.	A19.3:7 A15.2:Ir7 <sup>2</sup>
Alkali:	A10.2.111
Black. See Sodium carbonate.	
Influence of, on germination and growth of plants. p. 8	A1.9:97
Irrigation and, recent investigations by Wyoming Experiment Sta-	A10.3:76
tion in (Buffum). 1900. p. 69	A10.3:76
Standard, ditration of ammonium phosphomolybdate with, esti-	
mation of phosphoric acid in soils by double precipitation with molybdic solution and (Williams). 1895. p. 82	A7.3:47
See also Ammonia.	111.0.11
Alkali lands:	100017
Classification of (Cameron). 1901	A26.3:17 A1 10:895
Report on (Whitney and Means). 1899.	
Alkali soils:	
Certain components of, effect upon seedling plants (Kearney and Cameron). 1902. p. 7	A1.8:71
Chemical examination of (Seidell). 1901. p. 65	A26.3:18
Forage plants for cultivation on (Smith). 1898. p. 535	A1.10:898
Mechanical analysis, necessary modifications in (Briggs). 1900.	A1.8:64
p. 173	A1.9:97
Salt content of, instructions for determining in field (Whitney)	A26.4:6
Salts in, distribution of (Hilgard). 1896. p. 66	A10.3:30 A26.3:18
Solution studies of salts occurring in. 1901	
Alkali soils and vegetation, some mutual relations between (Kear-	•
ney and Cameron). 1902	A1.8:71
Alkali soils and waters in California (Hilgard). 1888–89. p. 297 Alkali solutions. See Acid and alkali solutions.	A15.2:P94 <sup>1</sup>
Alkalies in soil analysis, separation of, by official method (Hopkins).	
1902. p. 43	A7.3:67
Alkaline polysulphides, use of, for grape mildew. 1885. p. 67 Allegan County, Mich., soil survey of (Fippin and Rice). p. 93	A6.3:2 A26.5:901 <sup>1</sup>
Allegheny Observatory, research at, on atmospheric radiation	1120.0.002
(Very). 1900	A29.5:G
Allen, —. Quassia and other hop substitutes in beer, improved method of detecting. 1887. p. 376.	A7.3:13 <sup>8</sup>
Allen, A. B. Marsh hav, salt and fresh water, p. 296	A1.1:876
Allen, C.W. Address of, before Jefferson Memorial and Interstate Good Roads Convention. Apr., 1902. p. 13	4.00 0.0F
Allen Edward T. Western hemlock 1902	A22.3:25 A13.3:33
Allen, Edwin West:	1210.0.00
Agricultural Colleges and Experiment Stations, American, thir-	
teenth annual convention of Association of, 1899, report on. 1900. p. 405	   A10 6·11
on. 1900. p. 405 same, fourteenth annual convention, 1900. p. 404 Chemists, Official Agricultural, Association of, convention of, 1899,	A10.6:12
Chemists, Official Agricultural, Association of, convention of, 1899,	1100 ==
report on. 1900. p. 204	A10.6:11 A1 9-110
Cows, profitable and unprofitable, statement of. 1900. p. 21	A1.9:114

•	Index Classification no.
Allen, Edwin West—Continued Cream, pasteurized, commercial butter cultures used in connection	
with. p. 21	A1.9:103
Dairy work at agricultural experiment stations. 1897. p. 359	A10.6:8
Dairying, review of recent work on. 1895. pp. 943, 1045	
Feeding stuffs, control of, needs and requirements of. 1897. p.	
421 Leguminous plants for green manuring and feeding. 1894	A1.10:897
Milch cows, light versus heavy grain feeding for. 1900. p. 25	
Milk and cream, ropy, examination as to cause of. 1899. p. 26. Allen, Edwin West, Beal, Walter Henry, and Wilcox, Earley Vernon. Agricultural materials, inspection of, by agricultural ex-	
periment stations. 1900. p. 465	A10.3:80
Allen, Henry L. Temperatures obtained by kites at Bergen Point, N. J. 1898. p. 161	A29.6:26
Same, 1899. pp. 11, 251.	
Allen, Lewis F.:	
native, improvement of. p. 294	A1.1:866
short-horned breed of, considered with reference to beef and	
dairy interests of U.S. p. 416live stock, American. 1876. p. 403	A1.1:875 A27 9:14
Allen, Robert G.:	1121.0.14
Climate and crop correspondents, Weather Bureau, how many	A 00, 0.01
are required? 1902. p. 195	A29.3:31 A29.6:26
Weather observers, voluntary, book for record of instruments	
and flags. 1899. p. 125. Allen, Townsend. The Cyclone, a poem. 1902. p. 270	A29.3:24 A29.6:30
Allen, W. M. Food preservatives, provisional method for analysis	
of. 1902. p. 107. Allerton, Samuel Waters. Correspondence with, relative to exporta-	A7.3:65
tion of Canadian cattle from Boston, Mass	A1.2:C29 <sup>3</sup>
Allied national agricultural societies of America, officers of. 1900.	A 1 10-000
p. 643	A1.10:900 A1.10:901
Allingham, William. Ocean storms, forecasting, and best methods	
of making forecasts available to commerce. 1894. p. 150	A29.3:111 A9.7:4
Almanacs and Weather Bureau, notes on (Abbe). 1898. p. 21	A29.6:26
Almond disease caused by Cercospora circumscissa, remedies for (Pierce). 1891. p. 232.	A28.5:7
Almond in southwest Utah and southeast Nevada (Judd). p. 55	
Almond trees, disease of (Pierce). 1891. p. 66.	A28.5:7
Almonds, earth. See Chufa—Spanish almonds. Alpaca, introduction of. p. 437	A1.1:875
Alaike clover:	
Description of, translated by J. Arrhenius. p. 352	A1.1:865 A27.9:4
Alumina:	1120.0.1
Determination of, in phosphates, methods of (McDonnell). 1897.	A 7 9.E1
p. 47. Estimation of, in mineral phosphates (Lehmann). 1897. p. 61.	A7.3:51 A7.3:51
Adminic phosphate, high grade, action of ammonic citrate on (rius-	
ton). 1890. p. 170	A7.3:28
first results of (Comes and Deperais). 1890. p. 94	A6.3:11
Aluminum scales. See Thermometers. Alvarado, Cal.:	
Beet-sugar factory. 1870. p. 280	A27.9:8
Standard Sugar Refinery, report on (Furnas). 1892. p. 91	A1.8:20
Alvord, C. T. Maple sugar, manufacture of. p. 394	A1.1:002
Address of, as president of Association of American Agricultural	
Colleges and Experiment Stations, at ninth annual convention. 1896. p. 20	A10.3:30

	Classification no
Alvord, Henry Elijah—Continued	
Agricultural colleges, collective exhibit at World's Columbian	
Exposition, report on. 1893. p. 103.	A10.3:16
Breeds of dairy cattle. 1×99	A1.9:106
same, 1898–99, p. 154	A4.1:899
Cattle markets and abattoirs in Europe. p. 279	A4.1:901
Cheese—	
good, how to select. 1896	A4.4:11
manufacture and consumption of. 1895. p. 453	A1.10:895
Creameries or butter factories; advantages, location, organization, and equipment. p. 297	A4.1:895-6
Dairy—	A4.1:050-0,
by-products of, utilization of. 1897. p. 509	A1.10:897
development of, in U.S. 1899. p. 381	A1.10:899
same, p. 244 statistics of, compilation. 1896	A4.1:899
statistics of, compilation. 1896	A4.3:11
Dairy cattle, breeds of. 1899. p. 137	A4.1:898 A1.10:894
Dairy herd; formation and management. 1894. p. 295	
Dairy products at Paris Exposition of 1900. p. 194	A4.1:900
same, p. 599	A1.10:900
Dairying, officials and associations connected with, in U.S. and	
Canada, list of—	44470
1898	
1897 1898	
1899	
1900	
1901	
1902	
Eggs, trial shipments of, to England. p. 321	A4.1:899
Meats and meat products at Paris Exposition of 1900. p. 223 See also, as editor, Agricultural Colleges and Experiment Stations,	A4.1;800
American Association of, proceedings of.	
Alwood, William B:	
Cider, address on. 1902. p. 84	A7.3:67
Hop louse, experiments with remedies against. p. 102	A1.1:888
same, p. 102 Horn fly, remedies for. 1891. p. 68	A9.1:000 A9.7.4
Insecticides, tests with, upon garden insects. 1887. p. 38	A9.3:13
Ohio insects. 1886. p. 48	A9.3:13
Protoparce carolina, life history of 1898, p. 72	A9.6:17
San Jose scale; is cooperation for control of practicable? 1896.	1000
p. 80	A9.6:6
Woolly aphis of apple, life history of, notes on. 1898. p. 70	A9.6:17
Ambrosia beetles (Hubbard). 1896. p. 421	A1.10:896
Same (Hubbard). 1897. p. 9	A9.6:7
America:	4 4 4 6 6 6
Cavalry horses in (Morris). p. 159.	A1.1:863
Flax culture for seed and fiber in (Dodge). 1898	A11.0:10 A4 1.887_8
Modern farming in (Taveau). p. 280	A1.1:874
Pastoral lands of, report on. p. 301	A1.1:870
Trichiniasis in, extent of (Salmon). p. 475	A4.1:884
same. 1884. p. 269	A4.2:An5
western coast of, plants collected by U. S. S. Albatross along,	A6.5:1
in 1887-91, list of	AU.U.1
logical Club.	
American Association of Farmers' Institute Workers. See Farmers'	
Institute Workers.	
American Association of State Weather Services. See State Weather	
Services.	I

	Index
	Classification no.
American breeds of fowls:	14 9.00
1. Plymouth rock (McGrew). 1901	A4.3:28 AA 9.91
American Dairymen's Association, Utica, N. Y., Jan. 1871, notice of.	ATOO
AMA	A27.9:8
p. 479 American Forestry Association, summer meeting of (Henry). 1902.	
p. 401	A29.6:30
American grasses:	4005
No. 1 (Scribner) No. 2 (Scribner)	A3.3:7
No. 3 (Scribner)	A3.3:17 A3.3:20
See also Grasses.	A0.0.20
American Institute Farmers' Club, report on. p. 416	A1.1:869
American Pomological Society:	
Catalogue of fruits recommended for cultivation in various sections	
of U. S. 1897	A20.3:6
same, including British provinces. 1899	A20.3:8
History and progress (Wilder). p. 149 Richmond, Va., thirteenth session. 1871. p. 328	A1.1:8/U A97 Q.Q
American products:	A21.0.0
Hamburg as a market for. 1897	A12.4:14
Manchester district of England as a market for	A12.4:8
World's markets for	A12.3:
American troops returning from the East:	
Cestode, adult (Diplogonoporus grandis) of man which may occur	4400
in (Stiles and Tayler). 1902. p. 43 Egyptian and Japanese strongyle (Strongylus subtilis) which may	A4.3:35
possibly occur in (Stiles). 1902. p. 41	A4.3:35
Larval cestode of man which may possibly occur in (Stiles and	114.0.00
Tanlan) n 47	A4.3:35
Ames, Iowa. Insecticide experiments at (Osborne). 1886. p. 23	A9.3:11
See also Iowa College of Agriculture and Mechanic Arts.	
Amids, or amido-acids, nitrogen of, investigation of analytical methods	A7 0.54
for distinguishing between, and proteids (Mallet). 1898 Amity canal in Colorado, duty of water under (Berry). 1900. p. 159	A7.3:54 A10.3:86
Ammonia, results in mixed fertilizers variable (Williams). 1901.	A10.0.00
p. 28	A7.3:62
Ammonium citrate:	
Action of—	<b></b>
on basic slag (Huston and Jones). 1896. p. 68	A7.3:49
on high-grade aluminic phosphate (Huston). 1890. p. 170 Neutrality in solution, indicator for detection of (Richardson).	A7.3:28
1886. p. 21	A7.3:12
See also Phosphoric acid.	117.0.12
Ammonium nitrate, use of, in determination of phosphoric acid	
(Wheeler and Hartwell). 1892. p. 53	A7.3:35
Ammonium phosphomolybdate:	A 77 . O . 4 O
New reaction with (Ross). 1894. p. 97 Report on estimation of phosphoric acid by titration of yellow	A7.3:43
precipitate of (Kilgore). 1894. p. 100	A7.3:43
Titration of, with standard alkali, estimation of phosphoric acid	
in soils by double precipitation with molybdic solution and	
(Williams). 1895. p. 82	A7.3:47
Ammonium sulphate, nitrification of, in different soils (Withers and	A7.3:67
Fraps). 1902. p. 36	A1.5:01
Address of, as president of American Association of Farmers'	
Institute Workers, at seventh annual meeting, 1902, p. 14	A10.3:120
Farmers' institute work accomplished in Maryland. 1902. p. 25.	A10.3:120
Question box at farmers' institutes. 1902. p. 49  Amoy, China, rainfall of, 1897–1902 (Fesler). p. 486	A10.3:110
Amphiros large of notes on (Unbhand) 1909 - 10	A29.6:30
Amphizoa, larva of, notes on (Hubbard). 1892. p. 19	
p. 361	A4.1:899
Analysis. See Chemical analysis.	
Anarsia lineatella zell. Notes on (Cordley). 1897. p. 71	A9.6:9

Index	Classification no.
Anchor ice. See Ice.	
Anchylostomiasis. See Hookworm disease.	
Anderson, E. H.: Aletia, reports on. 1880–82. App., p. 37	A8.1:4
Aletia, reports on. 1880–82. App., p. 37 same, in Mississippi in 1878. p. 352.	A9.2:C82
Cotton worm in south Texas in spring and early summer of 1883.	A9.3:3
p. 31	A9.0.0
Erysipheæ of Montana, preliminary list of. 1889. p. 188	A28.5:5
Fungi, few common, of Montana, brief notes on. 1889. p. 30. [Erroneously attributed to "W. F. Anderson" in book]	
Fungi of Helena, Mont., supplementary notes on. 1889. p. 82	A28.5:5
Pastoral resources of Montana. p. 311	A1.1:888
same, p. 311	A28.5:6
Anderson, F. W., and Kelsey, F. D. Erysipheæ upon phytoptus dis-	
tortions. 1889. p. 209	A28.5:5
termination of. 1890. p. 93	
Anderson, W. B. Skim milk as food for young chickens. p. 477	A4.1:899
See also, as joint author, Plumb, Charles Sumner.  Andrew, John A. Industrial classes, education of. 1864. No. 1,	
p. 15	A27.9:3
Andrews, C. C.: Address of, before Minnesota Good Roads Convention. Jan.,	
1894. p. 8  Agriculture in Italy. p. 283	A22.3:2
Agriculture in Italy. p. 283	A1.1:876
Crops, rotation of, in Sweden. 1873. p. 363	A27.9:11 A1.6:40
Sugar beet in Sweden. 1872. p. 133	A27.9:10
Swartz system of butter-making in Sweden. 1876. p. 198 Anemometer:	A27.9:14
Local anemometric peculiarities (Abbe). 1900. p. 155	A29.6:28
Pressure, prize for (Abbe). 1902. p. 130.	A29.6:30
Relative merits of anemometers in general use (Dines). 1896.	A29.3:11 3
Safety fuse for lightning on (Abbe). 1898. p. 257	A29.6:26
Tests of (Marvin). 1900. p. 58	A29.6:28   A29.11.D
Aneroid, new style of (Abbe). 1898. p. 566	A29.6:26
Aneroid barograph on Great Lakes, instructions for use of. 1897	A29.12:An3
Aneroid barometers, report on (Marvin). 1898. p. 410	
Angell, Styher H., Roubaix, France. Cost of hauling farm products	
over wagon roads at. p. 3	A22.4:27
tries, work of, etc. 1872. p. 297	A27.9:10
See also, as translator, Salviate, E. de. Angleworms and warm rains, note on (Abbe). 1899. p. 474	A 90 & 97
Angora, Turkey, agriculture in. Notice of receipt of letter from	A28.0.27
Minister Terrell relative to	A1.2:An4
Angora goat: Asia Minor, industry of (Bailey). p. 493	A4.1-901
California. 1891. p. 35 Industry, progress of, in 1901 (Thompson). p. 457	A27.9:29
Industry, progress of, in 1901 (Thompson). p. 457	A4.1:901
same (Thompson). 1901	A4.3:27
same (Thompson). 1901. same, condensed (Thompson). 1901.	A1.9:137
Recent notes on, from bulletin of National Association of Wool Manufacturers. 1878. p. 126 Skins of. p. 516 Wool of. 1867. p. 254	A1.2:Sb3
Skins of. p. 516.	A4.1:900
Wool of. 1867. p. 254	A27.9:5
Angot, Alfred:	ĺ
Cloud photography. 1896. p. 769  Rainfall and charts of rainfall. 1902. p. 237  Angoumois grain moth or "Fly weevil" (Howard). 1893. p. 325.	A29.3:118
Angoumois grain moth or "Fly weevil" (Howard). 1893. p. 325.	A29.0:30 A9.7:5
9-11-11-1 9-11-11-11-11-11-11-11-11-11-11-11-11-11	,

•	
	Index
Anaström Knut on atmospherical apparation notes on (Abba) 1001	Classification no.
Angström, Knut, on atmospheric absorption, notes on (Abbe). 1901. p. 268	A29.6:29
Angström's pyrheliometer, examination of (Marvin). 1901. p. 454. Anguillula. See Root-knot disease, etc.	A29.6:29
· · · · · · · · · · · · · · · · · · ·	A4,3:35
See also Aphelenchus olesistus.  Anhalonium, North American species of, preliminary revision of	
(Coulter). 1892. p. 91	A6.5:3 A10.3:16
Animal body: Formation of fat in (Soskin). 1897. p. 179.  Metabolism of nutrients in and source of muscular energy (Zuntz).	A10.6:8
1897. p. 538 Animal breeding, progress in (Hays). 1901. p. 217	A10.6:7
Animal diseases. See Diseases of animals.	A1.10:901
Animal fibers. See Wool. Animal husbandry in central West (Morrow). 1882. p. 62	A1.8:22
Animal industry: Administrative work of Federal Government in relation to	
(Thompson). 1899. p. 441	A1.10:899
same, p. 102 Australasian; statistics of, 1899–1900. p. 557	A4.1:999 A4.1:900
Kansas, condition of (Heath), p. 405	A4.1:889-90
Literature on, in publications of Agriculture Department, 1837-98, index to (Thompson). 1900	A21.3:5
Pacific coast (Jones). 1892. p. 59	A1.8:20
Porto Rico (Cook). p. 663	A4.1:899
horses, etc. (Gaines), p. 122	
Animal Industry Bureau, Agriculture Department: Act for establishment of. p. 473.	A4. A4.1:884
same, proposed amendments to	A1.2:An51
Bill injuriously affecting work of, with letter of protest and appeal of Assistant Secretary of Agriculture. 1896	A1.4:4
Inspectors and other employees of, general instructions to. Mar.	A4.5:332
16, 1899. p. 10 Letter of J. M. Rusk regarding. 1890.	A1.2:An5*
Papers accompanying exhibit of, at Paris Exposition of 1889.	A A 1 · QQ7_Q ]
p. 359. Publications of fiscal year 1897. p. 322 Rules and regulations—	A4.1:897
1895	
1897. p. 324 •1897 and 1898. p. 605	A4.1:897 A4.1:898
1899. p. 692	A4.1:899
1900. p. 592 1901. p. 673	
Work of, at Trans-Mississippi and International Exposition. p.	
Work of, for farmer (Salmon). 1897. p. 236	
same, reprinted. p. 25	A4.1:897
Animal life, influence of climate on (Dean). 1902. p. 107	A29.3:31
Eleven miscellaneous papers on. 1902	A4.3:35
Inspection of meats for. 1898	A4.3:19
50–52. p. 558	A4.1:899
55–57 58–62. 1902. p. 19	A4.4:34
See also Chickens — Ducks — Geese — Parasites — Pigeons — Sheep — Turkeys.	12 T. U.UU
Animal products:	
Cape of Good Hope, exports and imports of. p. 529	A4.1:899 A4 1.808
South Africa (Stowe). p. 512 United States, number and value of, 1880-96	A27.8:11
See also Hides — Meats.	

	Classification no.
Animal smallpox, note on. 1866. p. 56	A27.9:4
nomenclature of (Atwater). 1899. p. 118	A10.3:65
Cruelty to, prevention of, in D. C., bill relative to, etc. 1896	A1.4:4
Dead, disposition of, in foreign cities. p. 346	A4.1:899
Diseased, food products from (Salmon). p. 250	A4.1:901
Effect of naphthaline on (Taylor). 1883	A18.2:N16
Excretion of metabolized nitrogen by (Langworthy). 1897. p.	
817	A10.6:7 A1.1:889
same, p. 22	
same, p. 10	
Feeding moldy corn to (Langworthy). 1900. p. 26	A1.9:722
Feeding of—	
abstracts of reports of Agricultural Experiment Stations on, 1889–1902	A10.6:
experiments in, at Rothamsted Experiment Station, England,	1210.0.
lecture on (Gilbert.) 1893. p. 231	A10.3:22
use of condimental feeding stuffs in. 1898. p. 25	A1.9:73
Feeding stuffs for, composition, etc.—	
1894. p. 558	
1895. p. 560	
1896. p. 605	A1.10:896
Food for—	A 1 1.005
cutting and cooking (Stewart). p. 396peanut oil-cake as. 1873. p. 445	A1.1:865
Free importation of. 1868. p. 62	A27.9:11 A27.9:6
Geographic distribution of, in North America (Merriam). p. 203.	A1 10.894
Humane treatment of, general order to inspectors	
Imported, inspection and quarantine of. p. 85	
same, p. 73 Imports of, at quarantine stations. 1897. p. 250	A4.1:897
"Loco" plant and its effect on (Stalker). p. 271	A4.1:886
Lower, pediculi and mallophaga affecting man and (Osborn). 1891.	A9.3:7
Movements of, from districts in which rabies exists, order con-	A4.5:48
cerning. 1899	A4.0.40
p. 94.	A10.3:7
Physical conditions surrounding, in experimental feeding, es-	
pecially as relative to stalls and mangers (Henry). 1891. p. 92.	A10.3:7
Quarantine of. See Cattle orders.	
Slaughtered for food, necessity for inspecting (Salmon). 1889.	4 7 0 07
p. 30. Training, for work (Gardner). p. 355.	A7.3:25
Wheat as a food for growing and fattening (Salmon)	A1.1:800 A4.4:2
See also Alpaca — Angora goats — Arvicolinæ — Bandicoots —	A1. T.4
Bats — Blarina — Breeding — Buffalo — Cashmere goat —	
Cattle — Diseases of cattle — Evotomys — Farm animals —	
Gophers — Grasshopper mouse — Ground squirrels — Guinea	•
pigs — Hesperomys — Jack rabbits — Jumping mice — Kan-	
garoo rats — Lemmings — Mammals — Merino ram — Musk	
ox — Pika — Pocket gophers — Pocket mice — Prairie dogs —	
Rabbits—Rats—Rocky Mountain goat—Shrews—Skunks— Squirrels — Voles — Weasels — Zebroids — Zoology — and	
headings beginning with Animal.	
Animala domestic:	
Age of, determination by teeth. 1898. p. 667	A1.10:898
Feeding standards for (Kühn). 1893. p. 6	A10.6:4
Age of, determination by teeth. 1898. p. 667  Feeding standards for (Kühn). 1893. p. 6.  Insects affecting (Osborn). 1896  Parasites of, methods of attacking (Osborn). 1893. p. 163.	A9.6:5
Parasites of, methods of attacking (Osborn). 1893. p. 163	A9.7:6
Temperature, pulse, and respiration of 1900. p. 740	A1.10:800
Upper air passages of, pathogenic and toxicogenic bacteria in	A4.3·3
(Moore). 1893. p. 38.  See also Cattle — Dogs — Farm animals — Goats — Hogs —	
Horses — Lambs — Mules — Pigs — Sheep — Swine.	
	-

Classification no.

	CIRBRIUCALIUM MU.
Animals, noxious:	
Danger of introducing (Palmer). 1898. p. 87	A1.10:898
Extermination of, by bounties (Palmer). 1896. p. 55	A1.10:896
Statistics of. 1888. p. 366.  Animals, wild, which may be imported without permits. 1900	A27.9:26
Animais, wild, which may be imported without permits.	A5.4:30
Animals and animal products:  Exports of (Salmon). 1897	A A A .17
Great Britain (May). 1898. p. 440.	A4.4:17 A4.1.202
same, 1899	
Imports and exports of—	11.1.1.000
1892–96. p. 305	A4.1:897
1898. p. 581	A4.1:898
1892-99 (Thompson). p. 421	A4.1:899
1900 (Thompson). p. 535	A4.1:900
1901 (Roberts). p. 611	A4.1:901
Malta (Grout). p. 520.	A4.1:898
Trade of Porto Rico in. p. 405	A4.1:899
Ankle diseases of horses (Holcombe). p. 357	A4.2:H78
Antarctic, fresh light on (Abbe). 1902. p. 31  Anthomyia angustifrous, a lignivorous insect. 1886. p. 38  Anthracite coal, production of, in Pennsylvania. 1820-72. p. 36	A29.0:30
Anthomyta angustitrous, a lightvorous insect. 1880. p. 38.	A9.5:12 A97 O.11
Anthracnose. See Cotton — Grape.	A21.0.11
Anthrax or charbon:	
California cattle (Bowhill). p. 443.	A4.1:887-8
same, further investigation (Chandler). p. 450	A4.1:887-8
Cattle in the Northwest (McLean). 1881. p. 311	
same (Detmers), 1881, p. 312	A1.6:34
Delaware, combating in (Neale). p. 190	A4.1:897
Dreaded diseases, one of the most. p. 23	A1.9:79
Etiology of. p. 298. Inoculation of. p. 209	A1.6:34
Inoculation of. p. 209	A1.6:22
Louisiana, outbreak in, 1896 (McQueen). p. 176	A4.1:897
Lower Mississippi Valley, outbreak in. p. 166	Δ1.1:001 Δ1.1:001_9
same (Law). 1881. p. 312.	A1 6.34
New Mexico, outbreak of (McLean). 1881. p. 317	A1.6:34
New York cattle (Law). 1881. p. 312	A1.6:34
Parasitic on cutworms. 1890. p. 353.	A9.7:2
Prevalence of, among domesticated animals (Norgaard). p. 40	A4.1:893-4
Western Mississippi outbreak. p. 379	A4:1:889-90
Antigua, W. I.:	
Climate of, seasonal variations in, 1890-1900 (Kimball). p. 168.	A29.6:29
Climatology of (Alexander). 1901. p. 165	A29.6:29
Thunderstorms at (Alexander). 1900. p. 380	A29.0:28
Cinchona, cultivation of, in United States. p. 454	A1 1-888
Sewage deposit, value of, of city of Washington. 1869. p. 228.	A27.9:7
See also, for reports as Chemist, Chemistry Bureau, Agriculture	
Department, 1866–1870	A7.1:
Antitoxic serum, treatment of experimental tuberculosis with (De	
Schweinitz). p. 305	A4.1:898
Ants. See House ants.	1070
Apetalæ of western Texas, description of (Coulter). 1894. p. 347	A6.5:2
Aphelenchus olesistus, a nematoid worm, cause of leaf sickness in	
Begonia and Asplenium (Bos). 1893. p. 161	A8.7:0
sites of family Chalcididæ, revision of (Howard). 1895	AQ Q+1
Aphelinus fuscipennis, an important parasite upon San José scale in	410.0.1
eastern United States (Johnson). 1900. p. 73	A9.6:26
Aphididæ:	
Certain little known, fifth contribution to a knowledge of (Weed).	
1001 - 008	A9.7:3
Notes on (Osborn and Sirrine). 1893. p. 235.	A9.7:5
Some questions relating to (Smith). 1891. p. 226	A9.7:3
Apple men and enimes (Sandanan) 1000 m 100	A10 0.115
Apple, pear, and quince (Sanderson). 1902. p. 123	A10.3:115

Index	Classification no.
Aphis—Continued	
Corn-root, summary history of (Forbes). 1891. p. 233	A9.7:3
liminary note on (Scott). 1902. p. 56	A9.6:31
See also Woolly aphis.	
Aphthæ, epizootic, of stock, nature, causes, treatment, etc., of. p. 352	A1.1:870
See also Foot-and-mouth disease.	
Aphthous fever. See Foot-and-mouth disease of cattle.	107.0
Apiarian exhibit at Columbian Exposition (Benton). 1894. p. 242. Apiculture:	A8.7:0
Experiments in—	44.4.00
1885 (McLain). p. 333	A1.1:885 A1.1:886
1887 (McLain). p. 66	A9.3:13
1887. p. 170	
1891 (Cook). p. 83	
Manual of instruction in (The Honey Bee) (Benton)	A9.6:1
See also Bees. Apoplectiform septicemia. See Chickens.	
Appalachian forests, southern, by river basins, description of (Ayres	
and Ashe). p. 69.	A1.2:Ap4 <sup>2</sup>
Appalachian mountain region, southern, forests and forest conditions of (Wilson). p. 13	A1.2:Ap4
Appalachian region, southern, forests, rivers, and mountains of,	
message from President of U.S., transmitting report of Sec- retary of Agriculture (Roosevelt)	A1.2:Ap42
Appalachians, southern:	•
Area of heavy rainfall in (Hawkins). 1897. p. 442.	A29.6:25
Climate of (Henry). p. 143	A1.2:Ap4-
memorials, reports, and extracts from press. p. 155	A1.2:Ap4 2
Forests and forest conditions in (Ayres and Ashe). p. 45	A1.2:Ap4 <sup>2</sup>
Lumbering in, now and under Government ownership and super-	•
vision (Price). p. 61 Practical forestry in (Price). 1900. p. 357	A1.2:Ap4*
Topography and geology of (Keith). p. 111	A1.10:500 A1.2:Ap4 <sup>2</sup>
Trees of (Ashe and Ayres). p. 93  Apparatus for sale by Agriculture Department. Jan. 24, 1896	A1.2:Ap42
Apparatus for sale by Agriculture Department. Jan. 24, 1896	A1.2:Ap4 * A1.9:113
Apple scab:	
Remedies for, experiments with (Taft). p. 30	A6.3:11
Treatment of, experiments— 1889 (Goff). p. 33	A28.5:5
1889 (Galloway and Southworth). p. 210	A28.5:5
1890 (Goff). p. 22	A6.3:11 A28.5:6
1893 (Goff). p. 87	A10.3:16
Apple-tree borers, larger, circular relating to (Chittenden)	A9.5:32
Apple trees, grafting, opinions of nurserymen and apple growers re-	
garding. 1898. p. 12. Apple-twig insect borer (Glover). 1873. p. 29.	A1.9:79
Apples:	A27.9:11 
Analyses of (Richards). p. 350	A1.1:886
Analyses of (Richards). p. 350.  Aphids of (Sanderson). 1902. p. 123.  Bitter rot of, treatment of (Curtiss). 1890. p. 38.	A10.3:115
Commercial orcharding (Brackett). 1901. p. 593	A1.10:901
Commercial orcharding (Brackett). 1901. p. 593	A1.1:862
same (Elliott). p. 19	A1.1:503 A7.3:48
For Southern States. p. 184. Keeping qualities of (Clark). 1900. p. 16.	A1.1:869
Keeping qualities of (Clark). 1900. p. 16	A1.9:119 A9.3:12
Tohncorre misterne minime, more one 1000. he at essessesses	1 444.4.14

	Classification no.
Apples—Continued	
Low-grade, use of, by evaporation and manufacture of cider.	4 - 0 - 00
1898. p. 20 Powdery mildew of, experiments in treatment. 1889	A1.9:73
Powdery mildew of, experiments in treatment. 1889	A28.4:8
same (Galloway). 1891. p. 11	A28.5:6
Ripe rot of (Southworth). 1891. p. 164	
Ten varieties of, suitable for export trade (Taylor). 1898. p. 350.	A20.3:7
See also Dried apples—Woolly aphis.	1120.0.1
Appleyard, T. J. Address of, before National Road Conference, July,	
1894. p. 41	A22.3:10
Applied science as factor of rural production. 1885. p. 31. No. 20.	A27.9:23
Appointment clerk, Agriculture Department:	
Report of—	
1895 (Bennett). p. 265	A1.1:896
1896 (Bennett). p. 267	A1.1:896
1897 (Bennett). p. 225	A1.1:89/
1902 (Bennett). p. 383	
Reports of Apprentice system, manual training and (Richards). 1894. p. 73	A1.2:Ap61 A10.3:20
Appropriations, annual, use of, decision of Comptroller of Treasury,	A10.0.20
Apr. 18, 1900	A2.2:Ap6
Apr. 18, 1900 Apricots, food value of (Langworthy). 1899. p. 22	A1.9:105
April:	
No changes in climate of (Abbe). 1899. p. 158	A29.6:27
Weather condition for, statement of average (Garriott). p. 162	A29.6:29
Aquaria, fresh and salt water (West), p. 446	l A1.1:864
Aquatic bug, interesting, report of. 1891. p. 198	A9.7:4
Aqueous vapor:	
Relative qualities of, in atmosphere, determination of, by means	400 0 10
of absorption lines of the spectrum. 1896	A29.3:10
Total quantity of, in atmosphere. 1894. p. 539	A28.0:22
of development of. 1895. p. 335	A 20 3-112
Arabia, wool trade of. p. 607	A4.1:901
Arable soils. See Soils.	111111001
Arbor day:	
History and observance (Egleston). 1896	A1.8:56
Observance of, by schools (Northrop). p. 27	A1.8:56
Origin and growth (Morton). 1887. p. 22.	A1.8:56
Relation of, to agriculture and horticulture (Skinner). p. 34	A1.8:56
Value and uses of (Mull). p. 29.	A1.8:56
See also Forestry.	A 1 O.EQ
Arbor day for the commonwealth (Higbee). p. 28	
Arborescent flora of U. S., nomenclature of (Sudworth). 1897	
Archibald, E. Douglas:	1110.0.11
Droughts, famines, and forecasts in India. 1900. p. 246	A29.6:28
Report of, on kites, note on (Abbe). 1897. p. 164	
Arctic and antarctic meteorological observers, notes on (Abbe).	
1901. p. 558	A29.6:28
Argentina:	
As a market for pure-bred cattle from U. S. (Salmon). 1902	A4.4:37
Cattle and cattle products of, some statistics of, 1899. p. 515	A4.1:899
Crops of. 1887. p. 382. Great Britain's purchases of cavalry horses in (Buchanan). 1898.	A21.9:20
<b>5.</b> 00	A 1 0.1170
Live-stock shipments from, to England. p. 77	A4.1:895_6
same (Wrav). p. 81	A4.1:895-6
same (Wray). p. 81	A29.6:30
Statistics of. 1890. p. 402.	A27.9:28
Statistics of. 1890. p. 402. Wheat production and exportation in, course of, 1880–1896	A12.4:10
See also Buenos Ayres — Cordova.	
Argyresthia, notes on, with descriptions of new species (Walsing-	10.50
ham). 1890. p. 117	A9.7:3
Arid lands. See Desert lands.	I

Index	Classification no.
Arid regions:	Classification au.
Colorado—	
grasses of, investigation of (Vasey). 1886.	A6.3:1
possibilities of reclamation of, by utilizing underlying waters (Miller). 1891. pt. 1, p. 301	A15.2:Ir72
grasses of, investigation of (Vasey). 1886	A6.3:1
possibilities of reclamation of, by utilizing underlying waters	415 0 7 7 7
(Miller). 1891. pt. 1, p. 301	A15.2:Ir7 <sup>2</sup>
Pacific slope, climatic and agricultural features of, etc. (Hilgard	1120.0.20
and others). 1882. Some climatic features of (Moore). 1896.	A1.8:20
Waterworks east of, having supply from artesian and underflow	A29.2:Ar4
sources. 1891. pt. 1, p. 433	A15.2:Ir7 <sup>2</sup>
See also Destitute regions — Semiarid regions.	A 9 A . 94
Aristida purpurea nutt., and its allies (Merrill). 1901	A0.4:04
Aerolite in, fall of (Abbe). 1897. p. 56	A29.6:25
Agricultural features of (Furnas), 1892. p. 173	A1.8:20
Atmosphere in, clearness of, notes on (Abbe). 1899. p. 110	A29.6:27
Birds observed in parts of, by Death Valley Expedition of 1891,	
notes on (Fisher). 1893. p. 7	A5.5:7
tation of (Dewey). p. 351	A1.1:891
same, p. 351	A6.1:891
Climate of, ancient (Abbe). 1897. p. 353	A29.6:25 A1 8:20
Entomological notes from (Cockerell). 1902. p. 107	A9.6:37
Forage plants of (Pool). 1888. p. 48	A6.3:6
Grange of (Marrill) 1001	<b>A 3 4.39</b>
Grasses of arid districts of, investigation of (Tracy). 1888. p.5	A6.3:6
Grasses of desert region of, plates and descriptions of (Vasey).  1890	A6.2:N82 <sup>1</sup>
8ame	A6.3:12
Irrigation in, use of water in (Code). 1900. p. 111	
Locusts, injurious and other (Townsend). 1893. p. 28 Northwestern—	A9.7:6
cactuses, yuccas, and agave in deserts and desert ranges of, geographic and vertical distribution (Merriam). 1893. p.	-
345	A5.5:7
spermophile, new, from, description of (Merriam). 1893. p. 17. trees and shrubs in deserts and desert ranges of, distribution	A5.5:2
of (Merriam). 1893. p. 285	A5.5:7
Plants collected by Edward Palmer in, 1890, list of (Rose).	4077
1891. p. 91	A6.5:1 A19.3:4
Sheep husbandry in. 1891. p. 20	A27.9:29
Sunstroke in (Phillips). 1896. p. 454.  See also Flagstaff — Little Colorado River, Desert of — Lower Colo-	A29.6:24
rado River—Phoenix—San Francisco Mountain region—Salt River Valley.	
Arizona and Japan, winds of (Abbe). 1895. p. 255	A29.6:23
p. 125	A10.3:104
p. 125. same, 1902 (McClatchie). p. 87	A10.3:119
Arkalon, Kansas, sorghum sugar experiments at, 1889 (Wiley) Arkansas:	A7.3:26
<b>M</b> •	A27.9:4
Cotton in. 1866. p. 330	A27.9:6
n 451	1 40 7.9
Moving cattle into Missouri from two northern tiers of counties	
in, Mar. 8, 1899	A4.5:32

	Index Classification no.
Arkansas—Continued	
Road-making materials in (Branner). 1894	A22.3:4
Southwestern, climate of, 1840-67. p. 429	A27.9:8
Tornadoes in (Emery). 1900. p. 499	A29.6:28
Arkansas Experiment Station, Fayetteville, laboratory notes from.	
1890. p. 134	A7.3:24
1890. p. 134. Arkansas Valley, Colorado, irrigation in (Stover). 1902. p. 287.	A10.3:119
Arkansas Valley, upper, description of. 1870. p. 150	A27.9:8
1900. p. 514	A4 1-900
Armsby, Henry Prentiss:	22 21 2 W O O
Address as president of Association of American Agricultural Col-	
leges and Experiment Stations, at 13th annual convention.	A 10 9.70
1900. p. 21 Agricultural experiment stations, collective exhibit at Paris Expo-	A10.3:76
sition, report of committee on—	
1899, p. 30	A10.3:65
1900, p. 20	A10.3:76
1901, p. 23	A10.3:99
Columbian Exposition, 1893, report of committee on—	
1892, p. 24	A10.3:7
1893, p. 99	
1894, p. 34	A10.3:20 ·
Digestion experiment— is a digestion experiment fallacious? 1891. p. 89	A 10 5.9
recent work abroad. 1891. p. 132.	A10.5:3
See also, as joint author, Wheeler Homer Jay.	1110.0.0
Army horses, German, requirements for (Kuhn). 1898. p. 31	A1.2:H78
Army Medical Department, connection of, with development of	4.00 0.11 1
meteorology in U. S. (Smart). 1895. p. 207	AZ9.3:11*
Bibliography of. 1883. p. 148.	A8.1:3
Circular relative to (Howard). 1894	A9.5:4
Entomological Commission, report on. 1883. p. 89	A8.1:3
Fall, report on (Chittenden). 1901	A9.6:29
same. p. 101	A9.1:882
same, p. 101	A8.1:3
Notes on (Glover). 1872. p. 438	A27.9:10
mame (Glover). 1873. p. 30	A27.9:11
same. 1883. p. 9	
Occurrence of during season of 1885-86 n 42	A9 3·12
Outbreak of, and some other insects affecting grain in Maryland (Ashmead). 1890. p. 53	
(Ashmead). 1890. p. 53.	A9.7:3
Arnheim, Netherlands, exhibition of agricultural implements at. 1870. p. 154	A27.9:8
Aroid plant, insect fertilization of an (Hubbard). 1895. p. 340	A9.7:7
Aroostook County, Maine, farming in. 1869. p. 149	A27.9:8
Arrhenius, J. See, as translator, Alsike clover.	
Improvement in manufacture of (Kirkland) 1800 n 102	A Q & 200
Improvement in manufacture of (Kirkland). 1899. p. 102  Preparation and use of (Kirkland). 1897. p. 46	A9.6:9
Preparation and use of (Kirkland). 1897. p. 46	A9.6:37
Amenical insecticides:	
Report on (Haywood). 1902. p. 96	A7.3:67
See also Arsenites.	A9.0:3/
Arsenical poisons for plum and peach curculio (Forbes). 1889. p. 3.	A9.7:2
Arsenical spraying of fruit trees while in blossom (Lintner). 1893.	
n 181	A9.7:6
Arsenicals, new and old, comparative tests with, on foliage and with larvæ (Marlatt). 1896. p. 30.	A9.6:6
Arsenites:	2111 V.V

Some historic notes on (Cook). 1891. p. 62. A9.7:4

Arsenites:

	Classification no.
Arsenites—Continued	40 7 2
Spraying with, vs. bees (Webster). 1892. p. 121	A9.7:5
same. 1894. p. 132	20.1.1
p. 115	A9.7:6
Art, science versus (Roberts). 1898. p. 69.	A10.3:49
Artace punctistriga, some observations upon (Morgan). 1901. p. 182	A10.3:99
Artesian and underflow investigation:	
Between ninety-seventh degree of west longitude and foothills	A15 0.70014
of Rocky Mountains (Nettleton). 1891	A15.2:F94 - A15.2:Ir72
Final report of chief engineer (Nettleton). 1893. pt. 2	A15.2:Ir72
Progress report (Hay), 1891, p. 137	A15.2:P941
Progress report on central division of Great Plains (Gregory).	A15 9-PQ41
1891. p. 145 South Dakota (Coffin). 1893. pt. 4, p. 51	A15.2:Ir72
See also Irrigation.	
Artesian and underflow investigations and irrigation inquiry, reports	A15.1:
of special agent in charge  Artesian and underground waters in Texas, eastern New Mexico, and	A10.1:
Indian Territory, west of ninety-seventh meridian (Hill).	
1893. pt. 3. p. 41	A15.2:Ir7*
Artesian basins in eastern Colorado and New Mexico, geological conditions of (Van Diest). 1890. p. 87.	A 15 9 - A = 7
Artesian water in Nevada (Irish). 1891. p. 199	A15.2:P941
Artesian waters, existence of, west of ninety-seventh meridian, etc.	
(Dumble), 1890, p. 99	A15.2:Ar7
Artesian well investigations: Colorado field work (Carpenter). 1890. p. 173	A15.2:Ar7
Field agents' report for middle division (Gregory). 1890. p. 145.	A15.2:Ar7
Field work in (Nettleton). 1890. p. 31	A15.2:Ar7
Geologist's report (Hall). 1890. p. 37.  Location of, within area of ninety-seventh meridian and east	A10.2:A7/
of foothills of Rocky Mountains, to determine (Hinton and	
others) New Mexico field work (Carpenter). 1890. p. 283 North and South Dakota field work (Culver). 1890. p. 55	A15.2:Ar7
New Mexico field work (Carpenter). 1890. p. 233	A15.2:Ar7
North Dakota field work (Underhill), 1890, p. 105	A15.2:Ar7
South Dakota field work (Coffin). 1890. p. 125	A15.2:Ar7
same (Updyke). 1890. p. 110.	A15.2:Ar7
Special expert's report (Beach). 1890. p. 141	A15.2:Ar7
Artesian well near Fort Lyon, Colo. (White and Aughey). p. 26	A1.1:881-2
Artesian wells:	A 1 5 0 7 2
Irrigation by, in Algiers. 1891. pt. 1, p. 369 Upon great plains; report of Geological Commission (White and	A15.2:1r/2
Aughey). 1882	A1.8:19
Aughey). 1882  Arthur, J. C., pear blight. p. 125	A1.1:886
Same, p. 125	A28.1:886
Arts. See Industries and arts.	1
Arvicolinæ, description of new genus (Phenacomys) and four new	
species of (Merriam). 1889. p. 27	A5.5:2
Same, proceedings of. 1894	A22.3:10
Aschaffenburg, Bavaria, Royal Forest School at. 1885. p. 50	A1.8:36
Ash, committee on, report of, at Association of Official Agricultural	A 7 0 00
Chemists. 1900. p. 94 Same. 1901. p. 54.	· A7.3:62 · A7.3:67
Ash:	
Composition of, of wheat grain and wheat straw grown at Rotham-	
sted in different seasons and by different manures (Lawes and Gilbert). p. 85	A7.3:4
Estimation and importance to agricultural chemistry and agri-	AI.U.T
culture of ash constituents of plants (Tollens). 1902. pp. 207,	
305	A10.6:13

•	('lassification no.
Ash—Continued	
Loss of sulphur in preparing (Fraps). 1901. p. 98.	A7.3:62
See also Ashes — Soils and ash.	
Ashburner, Charles E., jr.: Highways their construction and maintenance 1895 n 32	A 99 Q · 11
Highways, their construction and maintenance. 1895. p. 32  Macadamized roads, report on. 1895. p. 31	A22.3:17
Ashby, Newton B.:	112210111
Bristol butter markets. p. 210	A4.1:899
Bristol butter markets. p. 210 Cheese, market for, in England. p. 214	A4.1:899
Hamburg butter and cheese markets. p. 223	A4.1:899
Hamburg trade in eggs. p. 345.	A4.1:899
London butter trade. p. 211 Manchester butter market. p. 201	A4.1:899 A4.1:200
Paris butter and cheese markets. p. 220	A4.1:899
Paris market for eggs. p. 336	A4.1:899
Poultry dressed in foreign cities. p. 330.	A4.1:899
Poultry markets of Paris. p. 341	A4.1:899
See also, as translator, Scelle, Ch.	
Ashcraft, Charles E., jr. Lightning from a cloudless sky. 1900.	A29.6:28
p. 489. Ashe, W. W. See, as joint author, Ayres, Horace B.	A28,0:28
Ashe, W. W., and Ayres, Horace B. Trees of Southern Appa-	
lachians. p. 93	A1.2:Ap42
Ashes:	•
Are they an economical fertilizer at present prices? 1897. p. 24.	A1.9:65
Are they an economical fertilizer at present prices? 1897. p. 24. Coal, as a fertilizer. 1868. p. 461. Supply of, for agricultural purposes (Fleischman). 1884. No. 9.	A27.9:6
Supply of, for agricultural purposes (Fleischman). 1884. No. 9.	107 0.00
p. 28 See also Ash.	A27.9:22
Asheville, N. C. See Shelton Tobacco-Curing Co.	
Ashley, Alexander McC.:	
Seasonal forecasts, long range, for Pacific Coast States. 1901. p.	
16	A29.6:29
Short biography of (Abbe). 1901. p. 173	A29.6:29
Ashmead, William Harris:  Army worm and some other insects affecting grain in Maryland,	
outbreak of. 1890. p. 53	A9.7:3
Cotton insects found in Mississippi. 1894. pp. 25, 240, 320	A9.7:7
Encyrtid with six-branched antennæ. 1891. p. 455	A9.7:3
Insects injurious to garden crops in Florida. 1887. p. 9	A9.3:14
Spider parasite, new. 1894. p. 259	A9.7:6
Ashton, A. J. See, for report as chief of Seed Division, Agricultural Department. 1896	A24.1:
Asia:	A24.1.
Climatology of southern and western (Dallas). 1896. p. 672	A29.3:11 <sup>8</sup>
Eastern, United States wheat for. 1897.	$\Lambda 12.4:17$
Fruits, American and East Asian, sketch of relationship between	11.10.004
(Bailey). 1894. p. 437.	
Magnetic survey of (Tillo). 1895. p. 465	
Asiatic ladybird, importation and present status of, preliminary re-	A4.1.001
port on (Marlatt). 1902. p. 70.	A9.6:37
Asopia costalis, clover hay-worm, some studies of (Webster). 1891.	
p. 121	A9.7:4
Asparagus:	A 1 Q.Q1
Culture of (Handy). 1897  Forcing in the field, method of. 1898. p. 6	A1.9:01 A1 9:84
Insects that affect (Chittenden). 1898. p. 54	A9.6:10
Insects that affect (Chittenden). 1898. p. 54 Pest of, little-known (Sirrine). 1901. p. 177 Power sprayer for (Sirrine). 1901. p. 177 Asparagus beetles (Chittenden). 1896. p. 341 Asparagus berries, black spots of (Fairman). 1889. p. 157	A10.3:99
Power sprayer for (Sirrine). 1901. p. 177	A10.3:99
Asparagus beetles (Chittenden). 1896. p. 341.	A1.10:896
Asparagus berries, black spots of (Fairman). 1889. p. 157	A28.5:5
Apple of the Cos Apple of the closists of the cost of	A9.0:20
Asplenium, leaf sickness in, aphelenchus olesistus cause of (Bos).  1893. p. 161  Assmann, R. Balloon ascensions of, Nov. 14, 1896. p. 457	
1893. p. 161	A9.7:6
Assmann, R. Balloon ascensions of, Nov. 14, 1896. p. 457	A29.6:24

Index	Classification no.
Associations. See Names of associations.	
Asthenia (going light) in fowls (Dawson). p. 329	
Astronomy. See Aurora — Hevelius — Leonids at Havre, Mont.—	A25.0.20
Lunar rainbow — Meteor — Moon — Parhelion — Stars — Sun.	
Astrophysical Observatory of Smithsonian Institution, annals of	100 0 00
(Langley). 1902. p. 258. Athens, climate of, notes on (Abbe). 1898. p. 554	A29.6:30
Atherton, George Washington:	A20.0.20
Address of, as president of Association of American Agricultural	
Colleges and Experiment Stations at second annual conven-	A10 5.1
tion Jan., 1889. p. 73. same, at third annual convention, Nov., 1889. p. 65	A10.5:1 A10.5:2
Land-grant colleges, military instruction in, report of committee	
on. 1901. p. 85	A10.3:99
Morrill, Justin S., legislative career of. 1901. p. 60	A10.3:99
Cooking of food, suggestions regarding. 1894	A1.8:54
Cooking of food, suggestions regarding. 1894	A27.9:4
Food laboratories in connection with agricultural experiment stations of U.S., suggestions for establishment of. 1893	410017
Atkinson, George Francis:	A10.3:17
Anthracnose of cotton. 1891. p. 173	A28.5:6
Anthracnose of cotton. 1891. p. 173. Cotton, diseases of. 1896. p. 279	A10.3:33
Cotton cut-worm, note on. 1891. p. 31	A9.7:4
Nematode leaf disease, note on. 1891. p. 31	A9.7:4 A9.7:3
Atkinson, George W. Road improvement in West Virginia, extract	110.1.0
from governor's message. p. 14	A22.4:33
Atkinson, V. T.: Cattle, bones of, diseases and accidents to. 1892. p. 281	A A 9 · C 90 3
Poisons and poisoning of cattle. 1892. p. 63	A4.2:C29 <sup>1</sup>
Atlanta, Ga., comparative rain gage readings at (Henry). 1899.	
p. 543. Atlanta, Ga., Cotton Convention, 1881:	A29.6:27
Address before, relative to cotton worm (Riley). p. 153	A1.1:881-2
same, p. 153	A9.1:882
Proceedings of	A1.8:17
Organization of Dept. and list of its exhibits at. 1895	A21.2:At6
Work of Agriculture Dept. illustrated at (Wait). 1895. p. 503	
Atlanta, Ga., National Road Parliament, Oct. 17–19, 1895, reports by	400.0.10
delegates to	A22.3:19
garding. Aug. 20, 1900	A4.5:70
Atlantic, north:	4.00.0
Meteorology, monthly notes on, Jan., 1894-June, 1895	A29.6: A29.6:
Atlantic and Gulf coasts. Are present [storm] warnings and displays	A20.0.
by flag and lantern best that can be devised for? (Smith).	
1899. p. 27	A29.3:24
Same (McAdie). 1899. p. 29 Atlantic City, N. J. Weather Bureau at, electric signal apparatus at	A29.3:24
(Brand). 1898. p. 405.	A29.6:26
(Brand). 1898. p. 405. Atlantic Ocean, storms of, tropical, in September, 1895 (Garriott).	400 0.00
p. 167. Atlantic States, mineral fertilizers of. p. 367.	A29.6:23 A1.1:868
See also States and Territories.	
Atlas, climatological, of Russian Empire (Abbe). 1900. p. 343	A29.6:28
Atmidometry, some experiments in (Stevens). 1902. p. 129	A29.6:30
Aqueous vapor in—	
relative quantities of determination of by means of absorp-	1 400 0 10
tion lines of spectrum (Jewell). 1896	A29.3:16
tion lines of spectrum (Jewell). 1896	A29.6:23
	•

Classification no. Atmosphere—Continued Circulation of, in tropical and equatorial regions (Rotch). 1902. A29.6:30 Circulatory movements in, dynamic principle of (Bjerknaes). 1900. pp. 434, 532 A29.6:28 Ether and (Abbe). 1899. p. 362 A29.6:27
Flux and reflux of (De Lamanon). 1898. p. 463 A29.6:26 General circulation of (Abbe). 1895. p. 458. A29.6:23 same, especially in Arctic regions (Kimball). 1901. p. 408. A29.6:29 zame, original memoirs on (Brillouin). 1902. p. 300 ...... A29.6:29 (Humidity in charts of, notes on (Abbe). 1901. p. 118 A29.6:29 observations on (Lippincott). p. 520 A1.1:865 Hydrodynamic equations for, note on (Abbe). 1897. p. 445.... A29.6:25 Line integrals in (Bigelow). 1900. p. 535. A29.6:28 Movement of, new method of observing direction of (Clough). A29.6:26 1898. p. 250 ..... Planetary, permanency of, according to kinetic theory of gases (Cook). 1902. p. 401. Statics and kinematics of, studies on, in U. S. (Bigelow). 1902. A29.6:30 pp. 13, 80, 117, 163, 250, 304, 347 ..... A29.6:30 Studies on, at Trappes, France (Teisserenc de Bort). 1901. p. 20. A29.6:29 Systematic exploration of, by means of kites, method for (Rotch). 1902. p. 66 . . . A29.3:31 Temperature of, average (Abbe). 1898. p. 415.

Tides in, notes on (Abbe). 1900. p. 109. A29.6:27A29.6:28Upper, study of— from observations on mountain stations (Hann). 1896. p. 754. A29.3:11<sup>3</sup> Weight or mass of, notes on (Abbe). 1899. p. 58..... A29.6:27 See also Air — Aqueous vapor — Autumn haze — Barogram — Barograph — Meteorology — and headings beginning Atmospheric. Atmospheric absorption. See Angstrom, Knut. Atmospheric air, ionisation of, report on (Wilson). 1901. p. 159... A29.6:29 Atmospheric changes, relation of, to changes of water level in St. Marys Falls canal. 1894 A29.2:Sa2 Atmospheric circulation: In tropical cyclones, as shown by movements of clouds (Boyer). ..... A29.2:At6<sup>1</sup> Atmospheric dust. See Dust. Atmospheric electricity: Methods and instruments of precision for study of (Chauveau). 1895. p. 569 ..... A29.3:11<sup>2</sup> Origin, variations, and perturbations (Brillouin) 1897. p. 440... A29.6:25 Origin of, notes on (Abbe). 1898. p. 259..... A29.6:26 Reports on ....
Review of recent investigations into subject of (Elster and A29.6: A29.3:11<sup>2</sup> Geitel). 1895. p. 510..... Atmospheric precipitation, variations of lake levels and (Henry). A29.2:L15 See also Precipitation. Atmospheric pressure: 

RIIGOA	Classification no.
Atmospheric pressure—Continued	
High and low (Taylor). 1897. p. 350.	A29.6:25
High and low (Taylor). 1897. p. 350	A29.6:26
same, monthly report on, June, 1895. (Hazen)	A 29.6:23
same (Bigelow). July-Oct., 1895. same (Hazen). Nov., 1895-Nov., 1899.	A29.6:23
same (Hazen). Nov., 1895-Nov., 1899	A29.6:
same (Frankenfield). Dec. 1899–Apr., 1900	A29.6:
same (Hunt). May, 1900. same (Frankenfield). June–Dec., 1900.	A29.6:28
same (Frankenneld). June-Dec., 1900	A29.6:28
same JanMay, 1901 same (Hunt). June-Aug., 1901	A29.0:29 A90.6.90
same Sept., 1901	A 20.0:28 A 90 R 90
same (Frankenfield). OctNov., 1901.	A 29 6 29
same (Hunt). JanOct., 1802	A29.6:30
Low—	
effect of, in determining weather conditions in upper Missis-	
sippi Valley (Hazen). 1896. p. 89	A29.6:23
warm air attending (Abbe). 1894. p. 464	A29.6:22
Measurement of barometers and (Marvin)	A29.11:F
Reduction of (Morrill). 1897. p. 572.	A29.6:25
Report on (Bigelow). 1895. p. 117	A29.623
See also Meteorological observations.	
Atmospheric radiation:  Research conducted at Allegheny observatory and at Providence	
Research conducted, at Allegheny observatory and at Providence, R. I. (Very). 1900.	A29.5:G
R. I. (Very). 1900.  Very's memoir on, review of (Dorsey). 1900. p. 394	A29.6:28
See also Electrodynamic radiation.	A20.0.20
	A29.6:24
Atmospheric rolls, horizontal, report on (Proctor). 1896. p. 367	
Atmospheric survey, United States daily (Moore). 1897	A29.2:At62
Atmospheric temperatures during July (Phillips). 1895. p. 253	A29.6:23
Atmospheric vapor, note on (Abbe). 1897. p. 208	A29.6:25
Atmospheric waves (Abbe). 1894. p. 464.	A29.6:22
Attica, Kans., sorghum sugar experiments at, in 1889. (Wiley).	4 = 0 00
pp. 9, 26	A7.3:26
Atwater, Helen Woodard. Bread and principles of bread making.	A7.3:26
1900	A1.9:112
Atwater, Wilbur Olin:	A1.0.112
Agricultural experiment stations in Europe. p. 517	A1.1:875
same, pt. 2. p. 466	A27.9:14
same, pt. 2. p. 466 Agricultural science, recent progress in. 1874. p. 26.	A27.9:12
Connecticut Experiment Station, address on. 1901. p. 51	A10.3:99
Dietaries in public institutions. 1901. p. 393	A1.10:901
Fertilizers—	
cooperative experimenting as a means of studying effects of	41010
fertilizers and feeding capacities of plants. 1882	A1.8:18
effects of, and feeding capacities of plants, cooperative experi-	A 1 0.00
menting as a means of studying. 1882. p. 27various, results of field experiments with. 1883	A1.8:22 A1.8:31
Food, chemistry and economy of, methods and results of inves-	A1.0.01
tigations on. 1895	A10.3:21
Food and body material, available energy of. 1901. p. 112	A10.3:99
Food and diet. 1894. p. 357	A1.10:894
Foods, nutritive value and cost. 1894	A1.9:23
Holland experiment stations. 1895. p. 669.	A10.6:5
Nitrogenous compounds of animal and vegetable substances, sug-	
gestions regarding nomenclature of. 1899. p. 118.	A10.3:65
Nutrition, principles of, and nutritive value of food. 1901	A1.9:142
See also, for reports as chief of Experiment Stations Office, 1888-	A10.1.
Atwater, Wilbur Olin, and Benedict, Francis G. Metabolism of mat-	A10.1:
ter and energy in human body, experiments on; with coopera-	
tion of A. W. Smith and Arthur Peyton Bryant. 1899	A10.3:69
Atwater, Wilbur Olin, Benedict, Francis G., Bryant, Arthur Peyton,	43 1 (J. U . U J
Smith, A. W., and Snell, J. F. Metabolism of matter and	
energy in human body, experiments on, 1898–1900. 1902	A10.3:109
. g,	

•	
	Index Classification no.
Atwater, Wilbur Olin, and Bryant, Arthur Peyton:	
Chemical composition of American food materials. 1899	A10.3:28 <sup>2</sup>
cooperation of Jane Addams and Caroline L. Hunt, of Hull	A10 9.55
House. 1898. Dietary studies in New York in 1896 and 1897. 1902.	A10.3:55 A10.3:116
Dietary studies of Harvard and Yale boat crews. 1900.	A10.3:75
Atwater, Wilbur Olin, Johnson, S. W., and Cook, Geo. H. Agricul-	
tural experiment station work, report of committee on, to	•
convention of Association of American Agricultural Colleges and Experiment Stations, Washington, D. C., Oct., 1887	A1.8:45
Atwater, Wilbur Olin, and Langworthy, Charles Ford. Metabolism	111.0.10
experiments in which the balance of income and outgo was	
determined, digest of	A10.3:45
Atwater, Wilbur Olin, and Rosa, Edward Bennett. Respiration calorimeter, new, description of, and experiments on conser-	
vation of energy in human body. 1899	A10.3:63
Atwater, Wilbur Olin, and Sherman, H. C. Muscular work, severe	
and prolonged, effect of, on food consumption, digestion, and metabolism. 1901	A10.3:98
Atwater, Wilbur Olin, and Woods, Charles Dayton:	A10.3.80
Chemical composition of American food materials. 1896	A10.3:281
Dietary studies—	
New York City in 1895 and 1896	A10.3:46
University of Missouri, comments on. 1896. p. 21	A10.3:31
University of Tennessee, comments on. p. 33	A10.3:29
with reference to food of negro in Alabama in 1895 and 1896,	· I
conducted with cooperation of Tuskegee Normal and Indus- trial Institute and the Agricultural and Mechanical College	
of Alabama	A10.3:38
Atwater, Wilbur Olin, Woods, Charles Dayton, and Benedict, Francis	,
G. Metabolism of nitrogen and carbon in human organism, with respiration calorimeter of special construction, report of	
preliminary investigation on, etc. 1897	A10.3:44
Atwood, Geo. W. Fruits of Florida. p. 140	A1.1:867
Atwood, W. B. Horticulturists of agricultural experiment stations in U. S., list of, with outlines of work in horticulture at the	
several stations. 1889	A10.3:4
Aughey, Samuel. See, as joint author, White, C. A.	10000
August weather (Moore). 1900. p. 343.  Augusta, Ga., Congress of Cotton States, Oct., 1870, address before	A29.6:28
	A27.9:8
Augusta, Ga., tornado at, Mar. 20, 1895 (Fisher). p. 92	A29.6:23
Altitude of (Abbe). 1902. p. 314	A29.6:30 A29.6:26
Cosmical relations manifested in simultaneous disturbances of,	
sun, and terrestrial magnetic field (Lemström). 1895. p. 492.	
Florida, note on (Abbe). 1900. p. 294	A29.6:28 A29.6:26
Note on, of Aug. 19–20, 1894 (Abbe). p. 328.	
Related conditions and international cipher code for correspond-	
ence respecting (Veeder). 1894. p. 26	A29.3:11 <sup>1</sup>
р. 582	A29.6:27
South Carolina and Kentucky (Abbe). 1895. p. 297	A29.6:23
Texas, note on (Abbe). 1899. p. 474. Willets Point, N. Y., record of. 1870–85 (Abbe). p. 253	A29.6:27
Aurora australis of April 20, 1897 (Campbell-Hepworth). p. 204	A29.6:25
Aurora polaris (Abbe). 1894. p. 78.  Auroral light, notes on (Abbe). 1901. p. 512	A29.6:22
Auroral light, notes on (Abbe). 1901. p. 512	A29.6:29
Auroral-lunar halo display, report of (Ten Broeck). 1901. p. 551 Auroral observations on 2d Wellmann expedition made in neighbor-	A29.6:29
hood of Franz Josef Land, 1898-99 (Baldwin). p. 107	
Austin, Amory. Rice; its cultivation, production, and distribution in U.S. and foreign countries. 1893	
m o. p. and inicikit committee. Togg	

	('lassification no.
Australasia:	
Agriculture in. 1888. p. 284	A27.9:26
Meat trade of (Reynolds). p. 92	A4.1:595-4 A97 0.98
Statistics of animal industry of, 1899–1900. p. 557	A 27.9.20 A 4 1.900
See also Fiji Islands—Malay Archipelago—New Zealand—Queen	114.1.000
Charlotte Islands — Tasmania.	
Australia:	
Agricultural statistics of. 1869. p. 461	A27.9:6
same, 1863–72. p. 516  Animal diseases and farm pests in. 1887. p. 535	A27.9:10
Cryptophasa unipunctata in, habits and earlier stages (Edwards).	A27.9:25
	A9:7:3
1891. p. 384	A9.3:32
Insects of—	
notes on some injurious and beneficial (Webster). 1889. p.	
parasitic and predaceous, studies on (Koebele). 1893	A9.7:1
sent by Albert Koebele to Ellwood Cooper and B. M. Lelong,	A1.8:51
report on (Coquillett). 1893. p. 251.	A9.7:5
same, status of (Coquillett). 1893. p. 24	A9.7:6
See also Australian ladybird — Fluted scale — Red and black	
scale.	
Irrigation in; recent investigation, legislation, and administration	
by colonies of Victoria and New South Wales (Hinton). 1891.	A15.2:P94 <sup>1</sup>
Live-stock shipments from, to England. p. 77.	A4.1:895-6
same (Wray). p. 81	A4.1:895-6
Mountain meteorological stations in (Abbe). 1898. p. 166	A29.6:26
Salmon propagation in. 1867. p. 207	A27.9:5
Texas fever in. p. 85	A4.1:895-6
Woolgrowing in (Kenworthy). p. 204.  See also Melbourne—New South Wales—Victoria—and head-	A1.1:804
ings beginning Australian.	
Australian hymenopterous parasite. See Fluted scale.	
Australian ladybird, imported (Coquillett). 1889. p. 70	A9.7:2
Australian lamellicorns, new genus and two new species of (Sharp).	40.7.0
1890. p. 302	A9.7:2 A9.7:1
Australian report on American irrigation, 1884–85 (Deakin). p. 197.	A15.2:Ir7 <sup>1</sup>
Australian scymnus established and described in California (Riley).	
1892. p. 127	A9.7:5
Australian weather guide, notes on (Abbe). 1898. p. 365	A29.6:26
Australian wheat statistics. 1883–84. p. 38. No. 11	A27.9:22
Australian wools. 1873. p. 254	A27.9:11
Agricultural census of. 1865. No. 6. p. 18	A27.9:3
Cereal crops. 1893. p. 270  Coast provinces of, forest culture in. 1873. p. 141	A27.9:32
Coast provinces of, forest culture in. 1873. p. 141	A27.9:12
Foreign commerce of. 1873. p. 189.	
Phylloxera vastatrix in (Glover). 1875. p. 223	A27.9:13
Fairchild, for section of seed and plant introduction, Agricul-	
	A6.6:6
Statistics Bureau in, creation of. 1873. p. 188	A27.9:11
wines, beers, etc., analysis of, methods proposed for adoption for	
use in. 1893. p. 155	A7.3:38
See also Vienna. Austria-Hungary:	
As a factor in world's grain trade; recent use of American wheat	
in that country. 1897	A12.4:19
Cereal crops of, value of (Neumann-Spallert). 1883. No. 64. p. 66.	A27.9:21
Climate of, references to sources of information relative to (Hann).	A 00 9.11 8
1896. p. 657 Crops in. 1876. p. 33	A29.3:11 <sup>8</sup>
Flax culture in (Hawes). 1892. p. 55.	A11.5:4
Notes on. 1876. p. 283.	A27.9:14

•	Classification no.
Austria-Hungary—Continued People's banks of. 1891. p. 494	A27.9:29
See also Austria — Hungary — Bosnia. Autumn haze, notes on (Abbe). 1901. p. 374	A13.3:2
Axes, coordinate, standard system of, for magnetic and meteorological observations and computations (Bigelow). 1897. p. 201. Axima, North American, and its habits (Howard): 1890. p. 365 Ayres, Horace B. See, as joint author, Ashe, W. W.	A29.6:25
Ayres, Horace B., and Ashe, W. W.:  Appalachian forests, southern, description of, by river basins. p. 69.  Forests and forest conditions in southern Appalachians. p. 45  Ayrshire cattle, characteristics of (Howard). p. 193	A1.2: Ap4 <sup>2</sup> A1.1:863
Azores: Irrigation in, as presented in Census Bulletin No. 35, Feb. 27, 1891. p. 288 Weather cablegrams from, notes on (Abbe). 1900. p. 253. See also Ponta Delgata.	A15.2:P94 <sup>1</sup> A29.6:28
Aztec names and their pronunciation (Abbe). 1900. p. 549	
Address of, as president of Association of Official Agricultural Chemists, at tenth annual convention. 1893. p. 3.  Butter, variations in composition of. 1886. p. 25.  Babcock method for testing milk. See Bartlett, James Monroe—Van Slyke, Lincoln Lucius—Winton, Andrew Lincoln.  Babinet, Jacques:	A7.3:38 A7.3:16
Floods in water courses, best means of finding rules for predicting. 1894. p. 142.  Forecasting floods, methods in use in France. 1894. p. 94  Bachelor of science, four-year course, what studies should be embraced	A29.3:11 <sup>1</sup> A29.3:11 <sup>1</sup>
in (Ellis). 1896. p. 47.  Bacilli. See Bacteria and references thereunder.	A10.3:30
Bacon, curing of, p. 87	A4.1:897
Bacot, William S. Address of, before National Road Conference, July, 1894. p. 45.  Bacteria, practical bearing of investigations in (Smith). 1894.	A22.3:10
p. 109  See also Animals, domestic — references under Bacterial diseases — Cheese — Mare — Milk — Pig — Swine plague bacteria — Tuber- culosis bacillus.	A4.3:6
Bacteria and fibrine (Taylor)  Bacterial diseases. See Bovine tuberculosis—Cabbage—Egg plant— Fowl cholera—Glanders—Hog cholera—Irish potato— Plants—Swine plague—Tuberculosis.  Bacterial flora of foremilk, relation of cheese-curd inflation to	A18.2:F44
(Bolley). 1896. p. 78.  Bacterial products, investigation of effects of, in prevention of animal	A10.3:30
Same, p. 66.  Bacteriology, dairy (Conn). 1895  Baden-Baden, Germany, Seventh International Veterinary Congress,	A4.1:891-2 A10 3:25
Baden-Baden, Germany, Seventh International Veterinary Congress, Aug. 7–12, 1899 (Norgaard). p. 534  Baguio, Philippine Islands, climate of (Stetson). 1902. p. 478  Baguios of Philippines, note on (Abbe). 1899. p. 470  Bahama Islands:	A4.1:899 A29.6:30 A29.6:27
Cotton plant in, insects living on or injurious to (Schwarz).  1878. p. 347  Sisal hemp industry in (McLain). 1891. p. 52  Baier, Julius. St. Louis tornado, low pressure in. 1896. p. 332  Bailey, G. E. Geology of South Dakota west of Missouri River and of Wyoming east of foothills of Rocky Mountains. 1890.	A9.2:C82 A11.5:3 A29.6:24
p. 65.  Bailey, Isaac H. Leather production of America, report accompanying exhibit of Animal Industry Bureau at Paris Exposition of 1889. p. 419	A15.2:Ar7 A4.1:887-8

Index	Classification so.
Bailey, James S. Cossidæ, North American, with facts in life his-	Classification 20.
tory of cossus centerensis. 1883. p. 49	A9.3:3
Climatology and horticulture, some interrelations of. 1895.	A00 9.112
p. 431. Farmers' institutes, history and status in U. S. and Canada.	A29.3:11 <sup>2</sup>
Farmers' reading courses. 1899	
same (abridgment). 1900	
American and Eastern Asian, sketch of relationship between.	
p. 437our native, improvement of. 1896. p. 297	A1.10:894 A1.10:896
Phenological observations, instructions for taking. 1896. p. 328.	A29.6:24
Bailey, S. S. Highway improvement, shall farmers have aid for, from wealth of nation? 1901. p. 63	A22.3:21
Bailey, Vernon:	1122.0.21
Mammals and birds, results of trip through parts of Minnesota and Dakota for purpose of investigating food habits and	•
distribution of. p. 426	
same, p. 426	A5.1:887 A5.3:5
Prairie ground squirrels, or spermophiles, of Mississippi Valley.	
Spermophiles and pocket gophers of Mississippi Valley. p. 185	A5.3:4 A1.1:892
same, p. 185	
Voles, American, of genus Microtus, revision of. 1900	A5.5:17
Bainbridge-Hoff, Wm. See Hoff.	
Baird, Spencer Fullerton. Origin of domestic turkey. p. 288 Baird, Texas, feeding station at	A1.1:866 A4.5:57
Baker, F. P.:	_
Forestry, paper on. 1883. p. 181	A1.7:2 A1.8:28
Forests, timber-culture, etc., condition of, in Southern and West-	
ern States. 1884. p. 105	A13.5:4 A13.5:4
States, forest condition of. 1884. p. 181	A13.5:4
Timber lands of U.S., value and management of. 1884. p. 17 Baker, Geo. S. Cattle tick and tuberculosis in New South Wales.	A1.7:5
p. 386	A4.1:898
same, correction, p. 502  Baker, J. G. Sisal hemp, false, in Florida, description of. 1893.	A4.1:899
p. 32	A11.5:5
Baker, R. Cattle, best breeds of, adapted for general farmer of Western States. 1883. p. 95	
Baker, William E. Seeds, experiments with. 1870. p. 25	A27.9:8
Bakersfield, California, feeding station at	A4.5:57
Adulteration of (Crampton). 1889. p. 555	A7.3:13 <sup>5</sup>
same (Weber). 1889. p. 576same (Cornwall). 1889. p. 583	A7.3:13° A7.3:13 <sup>6</sup>
Character and constitution of (Crampton). p. 163	A7.1:889
Baking powders and baking-powder chemicals, analysis of, provisional method for (Winton). 1902. p. 98	A7.3:65
Balch, Edwin Swift. Evaporation underground, report on. 1901.	
p. 545 Baldwin, Evelyn B.:	A29.6:29
Auroral observations on 2d Wellmann expedition made in neigh-	<b>A</b> 90 <i>R</i> 90
borhood of Franz Josef Land, 1898–99. p. 107	A29.6:29
Josef Land, 1898–99. 1901. p. 351	A29.1:900
Ball, Carleton Roy:	
Grasses and fodder plants of Potomac flats. 1900	A3.4:28 A19.3:11

Class	164	enti	<b>O</b>	mo.
		-eu	VI	SV:

	Classification no
Ball, Carleton Roy—Continued	
Winter forage crops for South. 1902	A1.9:147
See also, as joint author, Scribner, Frank Lamson.	
Ball, E. D. Entomology, economic, simple form of accessions	
catalogue of. 1902. p. 37	A9.6:31
Ball, Hector L.:	
Climate and crop report, season of 1898, Alaska section. p. 548	A29.6:26
Tornado at Eaglesmere, Pa., June 27, 1892. p. 309	A29.6:20
Weather Bureau service in Alaska. 1898. p. 254	A 29.6:26
Balloon ascensions:	112010120
High, note on (Abbe). 1896. p. 16	A 29.6:24
International, June 8, 1898, notes on (Abbe). p. 262	A 29 8 28
Meteorological, at Strassburg, Germany (Rotch), 1901. p. 298.	A 29 R 29
Report of—	1120.0.20
1901 (Hazan) n 517	A 90 1 -9018
1891. (Hazen). p. 517.  December 4, 1894 (Abbe). 1894. p. 507.	A 90 R . 99
Nov. 14, 1896 (Assmann). p. 457	A 90 G.94
May 04 1900 in France (Picelers) in 107	A 90. Q .07
Mar. 24, 1899, in France (Bigelow). p. 197	A28.0.21
Results of, at St. Petersburg, May 20 to June 1, 1878 (Rykatcheff).	A 90 A 90
p. 392 Simultaneous, report on (Abbe). 1896. p. 415	A20.0:20
Pollogrammers	A28.0:24
Balloon voyages:	1 00 <i>0</i> .00
Barometer needed in, notes on (Abbe). 1900. p. 552	A29.0:28
Long, note on (Abbe). 1900. p. 113	A29.0:28
Balloons:	100 000
Aerial voyages by, notes on (Rotch). 1900. p. 553	A29.0:28
Aerial voyages by, notes on (Rotch). 1900. p. 553  Altitudes attained by, photographic apparatus for measuring (Cailletet). 1897. p. 443	
(Cailletet). 1897. p. 443	A29.6:25
Kites and clouds and (Abbe). 1896. p. 206	A29.6:24
Station for, near Berlin, Germany (Abbe). 1900. p. 13	
Study of upper atmosphere by means of (Kremser). 1896. p. 725.	A29.3:11*
Work with, at Trappes, France, results of (Abbe). 1899. p.411.	A29.6:27
See also Balloon ascensions — Balloon voyages.	•
Baltimore, Md.:	
Exports from, 1861-64. p. 35. No. 1	A27.9:3
Temperature curve for May, normal, marked rise in (Fassig).	
1902. p. 68	A29.3:31
Temperatures at, study of (Walz). 1899. p. 293	A29.6:27
Temperatures for, hourly (Kimball). 1902. p. 131	
Baltimore oriole and meadow lark (Beal). 1895. p. 419	A1.10:895
Bamboo, cultivation of (Hubbard). 1895. p. 29	A13.3:11
Banana flour, how it is prepared (Langworthy). 1900. p. 20	A1.9:119
Bananas, partially digested, spurious parasitism due to (Stiles and	
Hassall). p. 56	A4.3:35
Bandicoots, rats and, trypanosomiasis in. p. 155	A4.1:901
bane, Will H. See, for reports as superintendent, 1893 and 1894,	
Document and folding room, Agriculture Department.	
Bang, B. Tuberculosis in domestic animals, preventive measures	
against. p. 535	A4.1:899
Banks, Nathan:	
Entomology, American economic, bibliography of more impor-	
tant writings published on, between June 30, 1888, and	
Dec. 30, 1896	A9.2:B474
Dec. 30, 1896	A9.2:B47 <sup>7</sup>
Entomology, North American, list of works on. 1900	A9.6:24
Entomology, North American, list of works on. 1900	
of Entomology. 1902	A9.6:36
of Entomology. 1902.  Nursery stock, principal insects liable to be distributed on. 1902.	A9.6:34
Ked spiders of U.S. 1900. p. 65	A9.8:8
Banks:	
Peoples', Austria-Hungary. 1891. p. 494	A27.9:29
Peoples', Austria-Hungary. 1891. p. 494 same, Germany. 1891. p. 339 Rural cooperative, in Russia. 1891. p. 146	A27.9:29
Rural cooperative, in Russia. 1891. p. 146	A27.9:29
Barcena, Mariano:	
Climate of City of Mexico. 1896. p. 601 Short biography of (Abbe). 1899. p. 158	A29.3:11 <sup>8</sup>
Short biography of (Abbe). 1899. p. 158	A29.6:27
Bark-beetle, fruit-tree, circular relative to (Chittenden). 1898	A9.5:29

	Classification a
Barley:	
Crop, condition of, monthly notes on	A27.9:
same, statistics of, annual. Food for horses. 1901. p. 29	A27.1:
Rusted, request for specimens of (Dabney). 1894.	A28.4:14
Smut in, notes on (Galloway). 1889. p. 164.	
Straw and stubble of, specimens of, requested (Rusk). n.d	A28.4:12
Wide drilling and tilling of. 1870. p. 485	A27.9:8
See also Cereals — Crops — Farm products.	413005
Barley and its uses (Shaffer). p. 355  Barnard, W.S. Machinery designed for destruction of cotton worm,	A1.1:865
experimental tests of. 1883. p. 39	A9.3:3
Same, 1885. p. 191	A8.1:4
Barnes, Almont:	
Agriculture of South America, report on, with maps and latest	
statistics of trade. 1892. Goats, keeping, for profit. 1898. p. 421.	A27.8:2
Barnes, John A.:	A1.10:898
Hams, American, in Germany. p. 519.	A4.1:898
Trichinæ: German inspection of American hog products. p. 516.	A4.1:898
Barnett, Claribel Ruth. Sugar beet, references to literature of, ex-	
clusive of works in foreign languages. 1887	A17.3:16
Barns, Pennsylvania, description of (Watts). p. 289	A1.1:864
Barnyard manure:	A 1 0.01
Report on (Beal). 1894	A1.9:21
1895. p. 570	A1.10:895
1896. p. 616	
1897. p. 24	A1.9:56
Barogram near hurricane center, report on (Abbe). 1896. p. 336	A29.6:24
Barograph curve, winter, from south Pacific Ocean (Ward). 1897.	4 90 G.95
p. 484	A29.6:25
1898 (Abbe). p. 566	A29.6:26
1899 (Abbe). p. 60.	A29.6:27
1900 (Page). p. 590	
See also Atmosphere.	100 0 05
Barwick, James Arthur. Electric storms of California. 1897. p. 539.	A29.6:25
Barometer: Aneroid, report on (Chree). 1898. p. 547	A 29 6.26
same (Marvin). 1898. p. 410	A29.6:26
At sea (O'Leary). 1894. p. 167	A29.3:11 <sup>1</sup>
Camphor, notes on (Abbe). 1899. p. 255	
Corrections and reductions, notes on (Abbe). 1899. p. 548	
Diurnal variation of, notes on (Abbe). 1899. p. 314	A29.6:27
early (Abbe). 1897. p. 16	A29.6:25
letter relative to, comments on (Monchamp). 1899. p. 547	
notes on (Abbe). 1899. p. 546	A29.6:27
Method of filling (Partridge). 1896. p. 413	A29.6:24
Needed in balloon voyages, notes on (Abbe). 1900. p. 552	
Popular substitute for (Abbe). 1895. p. 299	A29.6:23
converted into standard pressures (Abbe). 1898. p. 314	A 29.6:26
metric and English, erroneous conversion of (Marvin). 1898.	1120.0.20
p. 302	A29.6:26
Reduction of—	
to sea level (Hazen). 1894. p. 538.	A29.6:22
to standard gravity, notes on (Abbe). 1900. p. 549	A29.0:28 490 8.90
Used in determining climatology of St. Kitts comparison of	A40.U.40
Used at sea, notes on (Abbe). 1901. p. 459 Used in determining climatology of St. Kitts, comparison of (Alexander). 1901. p. 257. Wind, table of, report on (Garriott). 1897. p. 204.	A29.6:29
Wind, table of, report on (Garriott). 1897. p. 204.	A29.6:25
See also Thermoscope.	
Barometers and measurement of atmospheric pressure (Marvin)	A29.11:F
Barometric pressure: Diurnal variation of (Cole). 1892	A 90 2.2
Piuma vanamum vi (Outo). 1002	A40.0.0

	Classification no.
Barometric pressure—Continued Hourly results from self-registers for recording (Abbe). 1897.	
p. 252 Rainfall and (Abbe). 1895. p. 172.	A29.6:25
Rainfall and (Abbe). 1895. p. 172.	A29.6:23
Reduction of, to sea level (Morrill). 1896. p. 492	A29.6:23
Relations between strength and direction of ocean currents and	
(Beehler). 1894. p. 177	A29.3:11 <sup>1</sup>
See also Climatic charts — Seiches.	
Barometric standard of Costa Rica, comparison with (Abbe). 1902.	
p. 445.	A29.6:30
Barometric troughs of plateau region, report on (Hazen). 1895.	
p. 207	A29.6:23
Barometric wave, daily, westward movement of (Fassig). 1901. p.	•
495	A29.6:29
same, p. 62	A29.3:31
Barometry of U.S., Canada, and West Indies, report on (Bigelow).	
1902	A29.1:901 <sup>2</sup>
Barrett, O. W. Changa or mole cricket in Porto Rico. 1902	A10.12:2
Barringer, P. B. Address of, before Jefferson Memorial and Inter-	
state Good Roads Convention, Apr., 1902. p. 14	A22.3:25
Barrows, Walter Bradford:	
Crow, common, of U. S. 1895. p. 9	A5.3:6
Crows, food of, special report on. p. 498	A1.1:888
same, p. 498	A5.1:888
Economic ornithology. p. 193	A1.1:892
same, p. 193	A5.1:892
English sparrow in North America, especially in its relation to	AL:
agriculture. 1889.	A5.3:1
agriculture. 1889	A1.1:893
same, p. 233	A5.1:893
Malodorous carabid, Nomius pygmæus, Dej, notes on. 1897.	
p. 49	A9.6:9
San Jose scale, present status of, in Michigan, 1897. p. 27	A9.6:9
Seed planting by birds. p. 280	
same, p. 280	A5.1:890
Barry, Patrick. See, as joint author, Wilder, Marshall P.	100 0 00
Bartholomew's physical atlas, note on (Kimball). 1902. p. 29	A29.6:30
Bartlett, James Monroe. Milk and cream testing, modification of	A 7. 9.40
Babcock method and apparatus for. 1896. p. 104	A7.5:49
See also, as joint author, Huston, Henry Augustus.	A 1 1.000
Bartlett, Levi. Wheat growing in New Hampshire. p. 96	A1.1:802
Atmospheric moisture, report on condensation of. p. 526	A 90 1.901 3
same, 1894	
Weather Bureau signals. 1892. p. 44	
Basic phosphatic slags, mechanical analysis of (Wiley). 1896. p. 78.	A7.3:49
Basic slag:	22770720
Action of ammonium citrate and citric acid on (Huston and	
Jones). 1896. p. 68	A7.3:49
Report on (McDonnell). 1897. p. 47	A7.3:51
Basidiomycetous fungi. See Agaricus campestris.	
Basseterre, St. Kitts, W. I., flood of Jan., 1880, at (Alexander).	
p. 196	A29.6:27
Bast fibers, uncultivated, of U.S., including history of previous ex-	
periments with plants and fibers, and brief statements relat-	
ing to allied species produced commercially in the old world	
(Dodge). 1894	A11.5:6
Bate, Henry C. Weather forecasts, what classes are most benefited	
by? are they just what are needed? are they properly dis-	100 0 01
seminated and utilized? 1899. p. 41  Bates, G. Hubert. Marine plants, their uses, with a brief account	A29.3:24
pares, G. Hubert. Marine plants, their uses, with a brief account	A 1 1 .000
of curing of Irish moss. p. 423.  Bates, William W. Ship timber in U. S. p. 472	A1.1:866
Retrochions and stand list of called a l	A1.1:866
Batrachians, annotated list of, collected in Idaho by C. Hart Merriam	AK K.K
and party, 1890 (Stejneger). p. 109	A5.5:5
See also Frogs — Reptiles and batrachians.	

Excrement, use of (McMurtrie). 1873. p. 580		Classification no
same. 1876. p. 192.  Free-tailed, from desert region of southern California, description of new species of (Merriam). 1889. p. 23.  same, from Lower Colorado River, Arizona (Merriam). 1889. p. 25.  North American, of the family Vespertilionidæ, revision of (Miller). 1897.  See also Moloseus.  Battey, Arthur H. Work of press for good roads. 1901. p. 89		
Free-tailed, from desert region of southern California, description of new species of (Merriam). 1889. p. 23		
same, from Lower Colorado River, Arizona (Merriam). 1889. p. 25. North American, of the family Vespertilionidæ, revision of (Miller). 1897. See also Moloseus. Battey, Arthur H. Work of press for good roads. 1901. p. 89. Same. 1902. p. 55. Battle, Herbert Bemerton: Fertilizer samples— bottled, loss of moisture in, when closed with cork. 1891. p. 159. Arthur J. 1892. p. 252. Bauer, C. E. Is Texas a wine land? 1888. p. 451. Baturoni, G. September norther on Mexican coast. 1892. p. 252. Bauer, Jacob W.: Meteorological observations, should not a book for permanent record of, be furnished to section centers and voluntary stations? 1899. p. 121. Meteorological reports of voluntary observers, monthly, examination of, is it desirable to report back to voluntary observer errors and irregularities discovered in his report? 1902. p. 172. Bavaria, agricultural statistics of. 1887. p. 257. See also Aschaffenburg. Bayonne, N. J.: Burning of Standard Oll Company's plant at, July 5, 6, and 7, 1900, cumulus clouds at (Eadie). p. 433. Kite observations at (Bayonne Kite Club). 1899. p. 55. A29.6:28 Kite ocrps at, records by (Allen). 1899. pp. 11, 251. Bach, S. A. Horticultural work at State Agricultural Experiment Station, Geneva, N. Y., methods of keeping records of. 1898. p. 72. Beal, Foster Ellenborough Lascelles: Birds, some common, in their relation to agriculture Birds that injure grain. 1897. p. 345. Bube jay and its food. 1896. p. 197. Bobolink, blackbirds, and grackles, food of. 1900. Cover blackbirds and their food. 1894. p. 233. Alio.894 Cuckoos, food of. 1898 Alio.894 Cuckoos, food of. 1898 Alio.895 Meadow lark and Baltimore oriole. 1895. p. 419. Alialfa slage. 1901. p. 25. Alialfa slage. 1901. p. 26. Alialfa slage. 1901. p. 27. Alial	Free-tailed, from desert region of southern California, description	
North American, of the family Vespertilionide, revision of (Miller). 1897.  See also Molossus.  Battey, Arthur H. Work of press for good roads. 1901. p. 89.  Battle, Herbert Bemerton: Fertilizer samples.  Fertilizer samples.  bottled, loss of moisture in, when closed with cork. 1891. p. 159.  preparation of, effect of finer grinding in. 1891. p. 160. A7.3:31  Batturoni, G. September norther on Mexican coast. 1892. p. 252. Bauer, C. E. Is Texas a wine land? 1868. p. 451.  Bauer, Jacob W.:  Meteorological observations, should not a book for permanent record of, be furnished to section centers and voluntary stations? 1899. p. 121.  Meteorological reports of voluntary observers, monthly, examination of, is it desirable to report back to voluntary observer errors and irregularities discovered in his report? 1902. p. 172.  Bavaria, agricultural statistics of. 1867. p. 257.  See also Aschaffenburg.  Bavaria, agricultural statistics of. 1867. p. 257.  See also Aschaffenburg.  Bavaria, agricultural statistics of. 1867. p. 257.  See also Aschaffenburg.  See also Aschaffenburg.  Boundary observers monthly, examination of, is it desirable to report back to voluntary observer errors and irregularities discovered in his report? 1902. p. 172.  A29.3:31  A29.3:24  A29.3:25  A29.6:28  A29.6:29  A29.6:2	same, from Lower Colorado River, Arizona (Merriam). 1889.	
ler). 1897 See also Molossus. Battey, Arthur H. Work of press for good roads. 1901. p. 89. A22.3:21  Battle, Herbert Bemerton: Fertilizer samples— bottled, loss of moisture in, when closed with cork. 1891. p. 159. A73.3:31  Baturoni, G. September norther on Mexican coast. 1892. p. 252  Bauer, C. E. Is Texas a wine land? 1888. p. 451. Bauer, Jacob W.: Meteorological observations, should not a book for permanent record of, be furnished to section centers and voluntary stations? 1899. p. 121. Meteorological reports of voluntary observers, monthly, examination of, is it desirable to report back to voluntary observer errors and irregularities discovered in his report? 1902. p. 172  Bavaria, agricultural statistics of. 1887. p. 257 See also Aschaffenburg. Bayonne, N. J.: Burning of Standard Oll Company's plant at, July 5, 6, and 7, 1900, cumlus clouds at (Eadie). p. 433. Same, neteorological observations during (Mitchell). p. 325. Kite corps at, records by (Allen). 1899. pp. 11, 251. A29.6:28 Kite observations at (Bayonne Kite Club). 1899. p. 65. A29.6:28  Beach, Horace. Artesian well investigation, special experts' report. 1890. p. 141. Beach, S. A. Horticultural work at State Agricultural Experiment Station, Geneva, N. Y., methods of keeping records of. 1898. Birds, some common, in their relation to agriculture. Sirids shat injure grain. 1897. p. 345. Birds, some common, in their relation to agriculture. A10.954 A11.0:896 Bobolink, blackbirds, and grackles, food of. 1900. A53.313 Cectar bird, food habits of. p. 197. A11.0898 Meadow lark and Baltimore oriole. 1894. p. 233. A10.0:894 A53.39 Meadow lark and Baltimore oriole. 1895. p. 419. A11.0:895 Cremard, how birds affect. 1900. p. 291. A11.0:896 A53.37 Beal, Walter Henry: Agricultural Colleges and Experiment Stations, American, tenth annual convention of Association of, 1896. p. 541. A10.6:9 A898. p. 504. A10.6:10 A19.103	North American, of the family Vespertilionidæ, revision of (Mil-	A5.5:Z
Battley, Arthur H. Work of press for good roads. 1901. p. 89	ler). 1897	A5.5:13
Battle, Herbert Bemerton: Fertilizer samples— bottled, loss of moisture in, when closed with cork. 1891. p. 159	Battey, Arthur H. Work of press for good roads. 1901. p. 89	A22.3:21
bottled, loss of moisture in, when closed with cork. 1891. p. 159		A22.3:22
preparation of, effect of finer grinding in. 1891. p. 160	Fertilizer samples—	
preparation of, effect of finer grinding in. 1891. p. 160	n 159	A7.3:31
Baturoni, G. September norther on Mexican coast. 1892. p. 252   A29.6:20 Rauer, C. E. Is Texas a wine land? 1888. p. 451   A27.9:8 Rauer, Jacob W.:  Meteorological observations, should not a book for permanent record of, be furnished to section centers and voluntary stations? 1899. p. 121.   A29.3:24    Meteorological reports of voluntary observers, monthly, examination of; is it desirable to report back to voluntary observer errors and irregularities discovered in his report? 1902. p. 172.   A29.3:31   A27.9:5    Bavaria, agricultural statistics of. 1867. p. 257   A27.9:5   A27.9:5   See also Aschaffenburg.   A29.6:28   A29.6:28	preparation of, effect of finer grinding in. 1891. p. 160	A7.3:31
Bauer, Jacob W.:  Meteorological observations, should not a book for permanent record of, be furnished to section centers and voluntary stations? 1899. p. 121.  Meteorological reports of voluntary observers, monthly, examination of; is it desirable to report back to voluntary observer errors and irregularities discovered in his report? 1902. p. 172.  Bayaria, agricultural statistics of. 1867. p. 257	Baturoni, G. September norther on Mexican coast. 1892. p. 252.	A29.6:20
Meteorological observations, should not a book for permanent record of, be furnished to section centers and voluntary stations? 1889. p. 121.  Meteorological reports of voluntary observers, monthly, examination of; is it desirable to report back to voluntary observer errors and irregularities discovered in his report? 1902. p. 172.  Bavaria, agricultural statistics of. 1887. p. 257	<b>_</b>	A27.9:6
record of, be furnished to section centers and voluntary stations? 1899. p. 121.  Meteorological reports of voluntary observers, monthly, examination of; is it desirable to report back to voluntary observer errors and irregularities discovered in his report? 1902. p. 172  Bavaria, agricultural statistics of. 1867. p. 257		
Meteorological reports of voluntary observers, monthly, examination of; is it desirable to report back to voluntary observer errors and irregularities discovered in his report? 1902. p. 172.  Bavaria, agricultural statistics of. 1867. p. 257	meteorological observations, should not a book for permanent	
Meteorological reports of voluntary observers, monthly, examination of; is it desirable to report back to voluntary observer errors and irregularities discovered in his report? 1902. p. 172.  Bavaria, agricultural statistics of. 1867. p. 257. A27.9:5  See also Aschaffenburg.  Bayonne, N. J.:  Burning of Standard Oil Company's plant at, July 5, 6, and 7, 1900, cumulus clouds at (Eadie). p. 433. A29.6:28  Kite corps at, records by (Allen). 1899. pp. 11, 251. A29.6:28  Kite corps at, records by (Allen). 1899. pp. 11, 251. A29.6:28  Kite observations at (Bayonne Kite Club). 1899. p. 65. A29.6:28  Kite observations at (Bayonne Kite Club). 1899. p. 65. A29.6:28  Beach, Horace. Artesian well investigation, special experts' report. 1890. p. 141  Beach, S. A. Horticultural work at State Agricultural Experiment Station, Geneva, N. Y., methods of keeping records of. 1898. p. 72  Beal, Foster Ellenborough Lascelles:  Birds that injure grain. 1897. p. 345. A1.10:3897  Blue jay and its food. 1896. p. 197. A1.10:3897  Blue jay and its food. 1896. p. 197. A1.10:3897  Cedar bird, food habits of. p. 197. A1.10:3896  Bebolink, blackbirds, and grackles, food of. 1900. A5.3:13  Cedar bird, food habits of. p. 197. A5.1:392  Crow blackbirds and their food. 1894. p. 233. A1.1:3892  Crow blackbirds and their food. 1894. p. 233. A1.1:3894  Cuckoos, food of. 1898. p. 197. A5.3:7  Beal, Walter Henry:  Agricultural Colleges and Experiment Stations, American, tenth annual convention of Association of, 1896. p. 541. A1.0:395  A10.6:10  Alfalfa silage. 1901. p. 25. A1.9:124  Chemists, Official Agricultural, Association of, convention of, 1896, report on. p. 272. A1.9:124  A19.124  Chemists, Official Agricultural, Association of, convention of, 1896, report on. p. 272. A1.9:103		A29.3:24
nation of; is it desirable to report back to voluntary observer errors and irregularities discovered in his report? 1902. p. 172  Bavaria, agricultural statistics of. 1867. p. 257. A29.3:31  Bavaria, agricultural statistics of. 1867. p. 257. A27.9:5  See also Aschaffenburg.  Bayonne, N. J.:  Burning of Standard Oil Company's plant at, July 5, 6, and 7, 1900, cumulus clouds at (Eadie). p. 433. A29.6:28  Kite corps at, records by (Allen). 1899. pp. 11, 251. A29.6:28  Kite corps at, records by (Allen). 1899. pp. 11, 251. A29.6:28  Kite observations at (Bayonne Kite Club). 1899. p. 65. A29.6:28  Beach, Horace. Artesian well investigation, special experter report. 1890. p. 141. A15.2:Ar7  Beach, S. A. Horticultural work at State Agricultural Experiment Station, Geneva, N. Y., methods of keeping records of. 1898. p. 72. A10.3:49  Beal, Foster Ellenborough Lascelles:  Birds, some common, in their relation to agriculture. A1.10:3897  Blue jay and its food. 1896. p. 197. A1.10:3896  Bobolink, blackbirds, and grackles, food of. 1900. A5.3:13  Cedar bird, food habits of. p. 197. A5.1:892  Crow blackbirds and their food. 1894. p. 233. A1.10:3894  Cuckoos, food of. 1898. A5.3:9  Meadow lark and Baltimore oriole. 1895. p. 419. A1.10:390  Woodpeckers, food of, preliminary report on. 1895. A5.3:9  Meadow lark and Baltimore oriole. 1896. p. 541. A10.6:8  same, eleventh annual convention, 1897. p. 303. A1.06:9  same, twelfth annual convention, 1898. p. 704. A10.6:10  Alfalfa silage. 1901. p. 25. A1.9:124  Chemists, Official Agricultural, Association of, convention of, 1896. p. 541. A1.9:124  A19:124	Meteorological reports of voluntary observers, monthly, exami-	
Rayaria, agricultural statistics of. 1867. p. 257   A27.9:5	nation of; is it desirable to report back to voluntary observer	
Bavaria, agricultural statistics of. 1867. p. 257		A 00 9.91
Bayonne, N. J.:   Burning of Standard Oil Company's plant at, July 5, 6, and 7, 1900, cumulus clouds at (Eadie). p. 433.   A29.6:28   Same, meteorological observations during (Mitchell). p. 325.   A29.6:28   Kite corps at, records by (Allen). 1899. pp. 11, 251.   A29.6:28   A29.6:28   Kite observations at (Bayonne Kite Club). 1899. p. 65.   A29.6:28   A29.6:28   Kite observations at (Bayonne Kite Club). 1899. p. 65.   A29.6:28   A29.6		
Bayonne, N. J.:  Burning of Standard Oil Company's plant at, July 5, 6, and 7, 1900, cumulus clouds at (Eadie). p. 433		1127.0.0
1900, cumulus clouds at (Eadie)	Bayonne, N. J.:	
Same, meteorological observations during (Mitchell). p. 325.	Burning of Standard Oil Company's plant at, July 5, 6, and 7,	
Kite corps at, records by (Allen). 1899. pp. 11, 251		
Same (Mitchell). 1900. p. 539   A29.6:28	same, meteorological observations during (Mitchell). p. 325.	A29.0:28
Rite observations at (Bayonne Kite Club). 1899. p. 65	same (Mitchell) 1900 n 539	A 29.6.28
Beach, Horace. Artesian well investigation, special experts' report.  1890. p. 141  Beach, S. A. Horticultural work at State Agricultural Experiment Station, Geneva, N. Y., methods of keeping records of. 1898. p. 72  Beal, Foster Ellenborough Lascelles:  Birds, some common, in their relation to agriculture  Birds that injure grain. 1897. p. 345  Blue jay and its food. 1896. p. 197. A1.10:896  Bobolink, blackbirds, and grackles, food of. 1900  Cedar bird, food habits of. p. 197  same, p. 197  Crow blackbirds and their food. 1894. p. 233  Meadow lark and Baltimore oriole. 1895. p. 419  Cuckoos, food of. 1898  Meadow lark and Baltimore oriole. 1895. p. 419  Woodpeckers, food of, preliminary report on. 1895. A5.3:7  Beal, Walter Henry:  Agricultural Colleges and Experiment Stations, American, tenth annual convention of Association of, 1896. p. 541  Alio.6:8  same, eleventh annual convention, 1897. p. 303  Alio.6:9  same, twelfth annual convention, 1898. p. 704  Alfalfa silage. 1901. p. 25  Barnyard manure. 1894  Chemists, Official Agricultural, Association of, convention of, 1896, report on. p. 272  same. 1897. p. 404  Same. 1898. p. 504  Alio.6:10  Align long rapid disappagance of 1898. p. 19		
1890. p. 141	Beach, Horace. Artesian well investigation, special experts' report.	
Station, Geneva, N. Y., methods of keeping records of. 1898. p. 72.   A10.3:49	1890. p. 141	
Beal, Foster Ellenborough Lascelles:   Birds, some common, in their relation to agriculture   A1.9:54     Birds that injure grain. 1897. p. 345   A1.10:897     Blue jay and its food. 1896. p. 197   A1.10:896     Bobolink, blackbirds, and grackles, food of. 1900   A5.3:13     Cedar bird, food habits of. p. 197   A1.1:892     same, p. 197   A5.1:892     Crow blackbirds and their food. 1894. p. 233   A1.10:894     Cuckoos, food of. 1898   A5.3:9     Meadow lark and Baltimore oriole. 1895. p. 419   A1.10:895     Orchard, how birds affect. 1900. p. 291   A1.10:900     Woodpeckers, food of, preliminary report on. 1895   A5.3:7     Beal, Walter Henry:   Agricultural Colleges and Experiment Stations, American, tenth annual convention of Association of, 1896. p. 541   A10.6:8     same, twelfth annual convention, 1897. p. 303   A10.6:9     Alfalfa silage. 1901. p. 25   A1.9:124     Barnyard manure. 1894   A1.9:21     Chemists, Official Agricultural, Association of, convention of, 1896, report on. p. 272.   A10.6:9     same. 1897. p. 404   A10.6:9     same. 1898. p. 504   A10.6:10     Clam long rapid diagappearance of 1898. p. 19   A1.9:103	Beach, S. A. Horticultural work at State Agricultural Experiment	r I
Beal, Foster Ellenborough Lascelles:       Birds, some common, in their relation to agriculture       A1.9:54         Birds that injure grain.       1897. p. 345       A1.10:897         Blue jay and its food.       1896. p. 197       A1.10:896         Bobolink, blackbirds, and grackles, food of.       1900       A5.3:13         Cedar bird, food habits of. p. 197       A5.1:892         same, p. 197       A5.1:892         Crow blackbirds and their food.       1894. p. 233       A1.10:894         Cuckoos, food of.       1898       A5.3:9         Meadow lark and Baltimore oriole.       1895. p. 419       A1.0:895         Orchard, how birds affect.       1900. p. 291       A1.10:896         Woodpeckers, food of, preliminary report on.       1895.       A5.3:7         Beal, Walter Henry:       Agricultural Colleges and Experiment Stations, American, tenth annual convention of Association of, 1896. p. 541       A10.6:8         Same, eleventh annual convention, 1897. p. 303       A10.6:9         Same, twelfth annual convention, 1898. p. 704       A10.6:10         Alfalfa silage.       1901. p. 25       A1.9:124         Barnyard manure.       1894       A1.9:21         Chemists, Official Agricultural, Association of, convention of, 1896, report on. p. 272       A10.6:9         same.       18		A10.3:49
Birds, some common, in their relation to agriculture  Birds that injure grain. 1897. p. 345  Blue jay and its food. 1896. p. 197.  Bobolink, blackbirds, and grackles, food of. 1900  Cedar bird, food habits of. p. 197.  Same, p. 197.  Crow blackbirds and their food. 1894. p. 233  Cuckoos, food of. 1898.  Meadow lark and Baltimore oriole. 1895. p. 419  Orchard, how birds affect. 1900. p. 291  Woodpeckers, food of, preliminary report on. 1895.  Beal, Walter Henry:  Agricultural Colleges and Experiment Stations, American, tenth  annual convention of Association of, 1896. p. 541  Al. 10:895  Al. 10:894  Al. 10:895  Al. 10:895  Al. 10:895  Al. 10:895  Al. 10:6:8  same, eleventh annual convention, 1897. p. 303  Al0.6:9  same, twelfth annual convention, 1898. p. 704  Alo.6:10  Alfalfa silage. 1901. p. 25  Same, 1897. p. 404  Same. 1897. p. 404  Same. 1898. p. 504  Clam long rapid disappearance of 1898. p. 19		
Blue jay and its food. 1896. p. 197.  Bobolink, blackbirds, and grackles, food of. 1900.  Cedar bird, food habits of. p. 197.  Same, p. 197.  Crow blackbirds and their food. 1894. p. 233.  Cuckoos, food of. 1898.  Meadow lark and Baltimore oriole. 1895. p. 419.  Woodpeckers, food of, preliminary report on. 1895.  As 1.10:894  At 1.10:894  At 1.10:895  At 1.10:895  At 1.10:895  At 1.10:895  At 1.10:900  At 1.10:900  At 1.10:900  At 1.10:900  At 1.10:900  At 1.10:895  At 1.10:900  At 1.10:900  At 1.10:895  At 1.10:900  At 1.10:900  At 1.10:895  At 1.10:900  At 1.10:895  At 1.10:900  At 1.10:900  At 1.10:895  At 1.10:900  At 1.10:900  At 1.10:895  At 1.10:900  At 1.10:895  At 1.10:900  At 1.10:896  At 1.10:894  At 1.10:894  At 1.10:895  At 1.10:895  At 1.10:896  At 1.10:895  At 1.10:896  At 1.10:895  At 1.10:895  At 1.10:895  At 1.10:896  At	Birds, some common, in their relation to agriculture	A1.9:54
Bobolink, blackbirds, and grackles, food of. 1900	Birds that injure grain. 1897. p. 345	A1.10:897
Cedar bird, food habits of. p. 197  same, p. 197  Crow blackbirds and their food. 1894. p. 233  Cuckoos, food of. 1898  Meadow lark and Baltimore oriole. 1895. p. 419  Woodpeckers, food of, preliminary report on. 1895.  Al. 10:895  Al. 10:895  Al. 10:895  Al. 10:900  Woodpeckers, food of, preliminary report on. 1895.  Beal, Walter Henry:  Agricultural Colleges and Experiment Stations, American, tenth  annual convention of Association of, 1896. p. 541.  Same, eleventh annual convention, 1897. p. 303.  same, twelfth annual convention, 1898. p. 704.  Alfalfa silage. 1901. p. 25.  Barnyard manure. 1894  Chemists, Official Agricultural, Association of, convention of, 1896, report on. p. 272.  Same. 1897. p. 404  Same. 1898. p. 504.  Clam long rapid disappearance of 1898. p. 19	Blue jay and its 100d. 1890. p. 197	A1.10:880
Same, p. 197.  Crow blackbirds and their food. 1894. p. 233	Cedar bird food habits of p. 197	A1.1:892
Crow blackbirds and their food. 1894. p. 233	same, p. 197	A5.1:892
Meadow lark and Baltimore oriole. 1895. p. 419	Crow blackbirds and their food. 1894. p. 233	A1.10:894
Orchard, how birds affect. 1900. p. 291  Woodpeckers, food of, preliminary report on. 1895		
Woodpeckers, food of, preliminary report on. 1895	Meadow lark and Baltimore oriole. 1895. p. 419	A1.10:895
Beal, Walter Henry: Agricultural Colleges and Experiment Stations, American, tenth annual convention of Association of, 1896. p. 541  same, eleventh annual convention, 1897. p. 303  same, twelfth annual convention, 1898. p. 704  Alfalfa silage. 1901. p. 25  Barnyard manure. 1894  Chemists, Official Agricultural, Association of, convention of, 1896, report on. p. 272  same. 1897. p. 404  same. 1898. p. 504  Clam long rapid disappearance of 1898. p. 19  A10.6:8  A10.6:9  A10.6:10  A10.6:10	Woodneckers food of preliminary report on 1895	A5.3:7
Agricultural Colleges and Experiment Stations, American, tenth annual convention of Association of, 1896. p. 541	Beal, Walter Henry:	1201011
annual convention of Association of, 1896. p. 541	Agricultural Colleges and Experiment Stations, American, tenth	
Alfalfa silage. 1901. p. 25  Barnyard manure. 1894  Chemists, Official Agricultural, Association of, convention of, 1896, report on. p. 272  Same. 1897. p. 404  Same. 1898. p. 504  Clam long rapid disappearance of 1898. p. 19  Al. 9:103	annual convention of Association of 1896. p. 541	A10.6:8
Alfalfa silage. 1901. p. 25  Barnyard manure. 1894  Chemists, Official Agricultural, Association of, convention of, 1896, report on. p. 272  same. 1897. p. 404  same. 1898. p. 504  Clam long rapid disappearance of 1898 p. 19  Al. 9:103	same, eleventh annual convention, 1897. p. 303	A10.6:9
Chemists, Official Agricultural, Association of, convention of, 1896, report on. p. 272	Alfalfa silage. 1901. n. 25	A1.9:124
Chemists, Official Agricultural, Association of, convention of, 1896, report on. p. 272	Barnyard manure. 1894	A1.9:21
report on. p. 272	Chemists, Official Agricultural, Association of, convention of, 1896,	
same. 1898. p. 504	report on. p. 272	A10.6:8
Clam long rapid disappearance of 1898 p. 19 A1.9:103	same. 1897. p. 404	A10.6:9
Corn, ear, versus corn-and-cob meal for cows. 1899. p. 16 A1.9:107	Clam long rapid disappearance of 1898 p 19	l A1.9:103
, , ,	Corn, ear, versus corn-and-cob meal for cows. 1899. p. 16	A1.9:107

Classification no.

	Classification no
Beal, Walter Henry—Continued	1
Cornstalks, waste in feeding, 1899, p. 16	A1.9:107
Cornstalks, waste in feeding. 1899. p. 16	A1.9:124
Cranberries, rotting of, and a proposed remedy. 1900. p. 9	A1.9:114
For preserving in water glass 1899 n. 17	A1 9:103
Eggs, preserving in water glass. 1899. p. 17	A1 9:107
Grapevines, girdling or ringing, operation of. 1899. p. 17.	A1 Q-105
Horses and hors silers for 1808 n 20	A1 0.103
Horses and hogs, silage for. 1898. p. 20 Irrigation, excessive, danger from, and remedy. 1899. p. 5	A 1 0.102
Lime, fertilizing value of different forms of. 1901. p. 12	A 1 0.194
Mutton shoon setablishing flook of 1000 m 99	A 1 0.110
Mutton sheep, establishing flock of. 1900. p. 23	A1 0.109
Dung food law working of 1000 - 22	A1.0:100
Pure-food law, working of. 1900. p. 23	A1.9:122
Seaweed, valuable agricultural resource of northern coast reg	10118.
1899. p. 5	A1.9:105
Sous, sandy, treatment of. 1901. p. 10	Al.9:124
biave site, value of, to daily laimer. p. 20	Al. 0.100
Unfermented grape juice, preparation of. 1900. p. 27	A1.9:122
Water, distilled, for drinking purposes. 1901. p.5	A1.9:124
See also, as editor of proceedings, Agricultural Colleges	
Experiment Stations, American, Association of; as	joint
author, Allen, Edwin West-McBryde, J. Bolton-	May,
David W.—Smith, C. B.	
Beal, Walter Henry, and Smith, C. B. Liming grass lands.	
p. 5	A1.9:122
Beals, Edward A.:	
Chicago weather forecast district, monthly report of, June,	
Dec., 1899	A29.6:27
Electricity, static, in Weather Bureau work, importance of.	1896.
p. 39	A29.3:18
Oregon weather and Bering Sea ice, notes on, 1890-99. p. 2	201  <b>A</b> 29.6:28
Portland, Oreg., weather forecast district, monthly repor	t of,
AprJuly, OctDec., 1900	
same, Jan., MarJuly, SeptDec., 1901	A29.6:29
same. JanOct., 1902	A29.6:30
Press, commercial bodies, and scientific organizations, rela	tions
of weather officials with, how promoted. 1899. p. 69	A29.3:24
Bean, J. F. Road question, a farmer's views on. 1901, p. 67.	A22.3:21
Bean-leaf beetle, report on (Chittenden). 1897. p. 64	A9.6:9
Bean weevil:	
Nomenclature and oviposition of. 1892. p. 27	A9.7:5
Report on (Slingerland). 1892. p. 86	A9.7:5
same. 1892. p. 297	A9.7:4
Beans:	
Blister beetles, note on great damage by. 1886. p. 37	
Gray hair-streak butterfly and its damage to. 1895. p. 354	
Insects injurious to (Chittenden). 1898. p. 233	A1.10:898
Pole, forcing of, under glass (Clark). 1898. p. 13	A1.9:105
See also Crops—Velvet bean.	
Beans, peas, and other legumes as food (Abel.) 1900	A1.9:121
Bear-grass, results of recent investigations relating to (Dodge).	
p. 70	A11.5:5
Bear River:	4 = 4 = 5
Interstate water rights in (Breckons). 1899. p. 26	A10.3:70
Irrigation of valley of, in Utah, 1901 (Stover). 1902. p. 24	
Water-right problems of. 1899	A10.3:70
Water supply of, and its diversion (Johnston). 1899. p. 9.	A10.3:70
Beardless brome grass, seed of (Pieters). 1900.	A6.4:25
Beattie, W. R.:	
Celery culture. 1902.	A1.9:148
Hydrocyanic-acid gas, use of, for exterminating household ins	
1902. p. 80	A9.6:31
Beaufort wind scale as used at sea (Abbe). 1894. p. 175	A29.6:22
Bebber, W. J. van. Weather service, present condition of; pro	posi-
tions for its improvement. 1894. p. 34	A29.3:11 <sup>1</sup>
Deschamp, A. Milk, nature of. 1890. p. 154	A7.3:24
<del>-</del>	

•	Classification no.
Beckwith, M. H.:	
Corn crambid, abstract of notes on. 1891. p. 42	
Insecticides, use of, practical notes on. 1891. p. 269	A9.7:3
Circular on (Marlatt). 1902.	A9.5:47
Report on (Riley). 1889. p. 104	A9.7:2
same (Marlatt). 1896. p. 32	A9.6:4
Bedford area, Virginia, soil survey of (Mooney and others). p. 239 Bedle, Benjamin R. Sheffield, England, cost of hauling farm pro-	
ducts over wagon roads at. p. 3	A22.4:27
Bee disease. See Foul brood.	
Bee keepers' associations, national, sectional, and State, list of,	
with officers:	A 1 10.000
1899. p. 708 1900. p. 662	
1901. p. 633	A1.10:901
Bee-keeping:	
Condition of industry, etc., 1889. p. 224.	A27.9:27
Directory of departments, boards, societies, colleges, and other organizations in interest of. 1885	A1.8:39
Locations suited to (Benton). 1897	
Report on (Tupper). p. 458	
Statistics of. p. 272	A1.1:868
Winter, report on (Tupper). p. 209	A1.1:867
Bee martin. See Kingbird. Beech trees, disease of. 1873. p. 502	A27.9:11
Beef:	1120.0.11
American and European, comparative composition of (Woods).	
p. 426	A4.1:887-8
Breeding and feeding of, and supply of market there with (Beverly). p. 103	A1.7:2
p. 103	A1.7:2 A1.7:2
same (Scott). p. 132	A1.7:2
Consumption of, in Saxony. 1887. p. 591	A27.9:25
Exportation of, order regarding. Mar. 9, 1897	A4.5:1
Production of, some essentials in (Curtiss). p. 48	A4.1:897 A1.9:71
Report concerning 6.25 protein factor as applied to (Goss). 1899.	111.0.71
p. 94	A7.3:57
Steer and heifer, opinions as to comparative value of. 1898. p. 27.	A1.9:73
Supply of— American, address on, before 3d national convention of stock-	
men, Chicago, Nov. 1885 (Colman)	A1.8:38
cheap. 1866, p. 436	A27.9:4
in United States. p. 39	A4.1:887-8
same (Salmon). p. 64same (Salmon). 1890	A1.1:889 A4.2:B39
See also Cattle.	A4.2:D08
Beef and beef cattle of the West (Corbett). p. 326	A1.1:862
Beef and dairy cattle, conformation of (Soule). 1902	A1.9:143
Beehler, W. H.:	
Barometric pressure and strength and direction of ocean currents, relations between. 1894. p. 177	A29.3:11 <sup>1</sup>
Marine meteorology, division of, in Hydrographic Office, Navy	1120.0.11
Department, origin and work of. 1895. p. 221	A29.3:11 <sup>2</sup>
Beer:	
American, composition of, and substances used in adulteration	A1 1.887
(Crampton). p. 183	A1.8:52
Quassia and other hop substitutes in, improved method of detect-	_
ing (Allen). 1887. p. 376	
Bees: Culture of aircular relating to 1885	AQ 4.09 ·
Culture of, circular relating to. 1885	A9.7:4
Hive, wheel bugs destroying, note on. 1886. p. 44	A9.3:12
Hive, wheel bugs destroying, note on. 1886. p. 44	A9.7:4

	Classification no
Bees—Continued	
Langdon nonswarming device (Benton). 1893. p. 230	
Production of honey and wax, statistics. 1901. p. 784	A1.10:901
Report on (Riley). 1894. p. 350	A9.7:6
Spraying, with arsenites (webster). 1892. p. 121	A9.7:0
same. 1894. p. 132	A9.7:7
See also Apiarian exhibit — Apiculture — Bee keeping — Foul	A21.5.2
brood — Honeybee — Italian honeybee.	
Beeswax:	
Adulteration of (Wiley and others). 1892. p. 633	A7.3:136
Production of, 1869-89. p. 112.  Beet, growth of, relation of meteorology to (Davy). 1879. p. 284.	A27.9:32
Beet, growth of, relation of meteorology to (Davy). 1879. p. 284	A1.6:28
See also Sugar beets.	
Beet and beet-root sugar (Cull). 1873. p. 366.	A27.9:11
Beet insects, notes on (Bruner). 1891. p. 229	A9.7:3
Beet-juices, analysis of, with table for calculation of analyses (Crampton). 1884. p. 31	A7 2.15
Same, at Fort Scott, Kans., 1887 (Crampton). p. 15.	A7.3.10 A7.3.17
Beet-leaf pegomyia, report of (Howard). 1895. p. 379.	A9.7:7
Beet-sugar:	120000
Chemical memoranda on (Brown). 1872. p. 218	A27.9:10
Encouragement of sorghum industry and. 1883	A1.8:26
Europe (Gennert). p. 158.	
same, p. 334	A1.1:869
Factories in California, information relative to. 1870. p. 357	A27.9:8
Bame, 1887, p. 452	A27.9:25
Factory at Alvarado, California. 1870. p. 280	A21.9:5
in (Spencer) 1885 n 108	A7.3:5
in (Spencer). 1885. p. 106	A27.9:21
Manufacture of—	
culture of sugar beet and (Wiley). 1890	A7.3:27
France and Germany, progress of. 1866. p. 179	A27.9:4
German zollverein. 1870. p. 42	
letters on. 1869. p. 373*	A27.9:7
Northwest as compared with countries of Europe (Frederick-	A 1 (2.00
sen). 1879. p. 275 progress in. 1872. p. 14	A1.0:28 A97 0:10
report on (Hulse). 1870. p. 147.	A27.9.10 A27.9.8
success of. 1871. p. 195.	A27.9:9
use of residues from, in cattle feeding (Spencer). 1898. p.	
213	A1.10:898
Notes on. 1865. No. 6. p. 23.	A27.9:3
Production of—	4.000.0
note on (Capron). 1868. p. 59	A27.9:6
possible influencé of importation of Hawaiian sugar on in U.S Statistics of, 1868–69. p. 73	A1.4:7
See also Beet and beet-root sugar — Sugar beets.	A21.0.0
Beet-sugar industry in U. S.:	
1870. p. 210	A1.1:870
1873 (Cull). p. 441	A27.9:11
1897 (Saylor). p. 161	A1.2:B39 <sup>1</sup>
same	A1.2:B39*
1897 (Wiley). p. 11	
1898 (Saylor). p. 13.	
1898 (Wiley). p. 131	A1 8.80
1900. 1900, p. 750	A1.10:900
1901	A1.8:72
1901 (Saylor). p. 487.	A1.10:901
Beetles:	
Certain imported, distribution of (Chittenden). 1895. p. 326	A9.7:7
Food and habits of (Glover). 'p. 78	A1.1:868
Luminous. 1874. p. 221 Destroying twigs (Glover). 1871. p. 477	A27.9:12
	1 A41.8'8
*By a misprint, this page number appears twice.	

Beetles—Continued	
See also Agonoderus pallepes — Agrilus — Allorhina — Ambrosia	
beetles — Amphizoa — Asparagus beetles — Australian lamel-	
licorns — Bark beetle — Bean leaf-beetles — Blister beetles — Bruchus — Carabid malodorous — Carpet beetle — Cicindela	
limbata — Clover-leaf beetle — Coccinellidæ — Coleoptera —	
Colorado potato beetle — Cottonwood beetle — Cucumber	
beetles — Curculio — Curculionidæ — Dermestidæ — Diabro-	
tica soror — Diabrotica 12-punctata — Eburia quadrimacu-	•
lata — Elm leaf-beetle — Fig eater — Flea beetle — Graptodera	
foliacea — Hornia — Horse-radish flea-beetle — Hylesinus seri-	,
ceus — Hyperaspis signata — Lachnosterna — Lachnosterna	
fusca — Lady-bird — Lamellicorns — Languria — Leaf-mining locust-beetle—Leonia Rileyi—Locust beetle—Mexican cotton-	
boll weevil — Novius cardinalis — Pea weevil — Pea and bean	
weevils — Pine bark-beetle — Plum curculio — Plum gouger —	
Poplar gonioctena — Potato bug — Potato-bug weevil — Red-	
legged flea-beetle—Rhinoceros beetle—Rose-bug—Rose	
chafer — Rose leaf-beetle — Rove beetle — Scolytidæ Scoly-	
tids—Scymnus—Spruce bark-beetle—Strawberry leaf-flea	
beetle — Strawberry weevil — Sugar-cane beetle — Tan-bark beetle — Tobacco flea-beetle — Tobacco-stalk weevil — Twig	
girdler.	
Beeves, early maturity of. 1886. p. 141	A27.9:24
See also Cattle.	1
Beggar weed, Florida, report on (Smith). 1899	A3.4:13
Begonia, leaf sickness in, Aphelenchus olesistus cause of (Bos). 1893.	
p. 161	A9.7:6
Behr, Herman, and Klee, W. G., California, plants worth trying in. 1892. p. 141	A1.8:20
Belden, W. S. Climate and crop sections, Weather Bureau, publica-	A1.0.20
tions of, necessity for binding and otherwise preserving. 1902.	
p. 177	A29.3:31
Belfast, Ireland, British Association, 1900. Address on meteorology	
at (Schuster). p. 448	A29.6:30
Belgian Exposition of Agriculture and Forestry, 3d, 1869, advance	A 97 Q.7
notice of. p. 235  Belgian State Laboratories, official methods of analyses of fertilizing	A27.9:7
and feeding stuffs adopted by. 1899. p. 304	A10.6:10
Belgium:	
Agricultural associations in (De Vuyst). 1898. p. 3	A10.6:9
Agricultural census of. 1885. p. 37. No. 24	A27.9:23
Agricultural education and research in (True). 1896. p. 361	
Agricultural education in (De Vuyst). 1893. p. 703	A10.6:4
Agricultural experiment stations in (Petermann). 1895. p. 550	A10.6:5
Agricultural schools in, organization and management of (Welch).	110.0.0
1885	A1.8:36
Agriculture of. 1873. p. 562	
American horses in (Storer). 1897. p. 24	A1.2:H78
Cost of hauling farm products over wagon roads in (Roosevelt).	A 00 A 07
p. 1 Crops in 1890 and 1889. p. 643	A22.4:27
Dead animals in, disposition of (Roosevelt). p. 354	
Flax culture in (Wallace). 1892. p. 47	
Horse breeding in (Winslow). p. 503  Markets for American products in. 1895  Meteorology in, history of, notes on (Abbe). 1901. p. 69	A12.3:6
Meteorology in, history of, notes on (Abbe). 1901. p. 69	A29.6:29
Poultry raising in (Lincoln). p. 506. Roads of (Valliant). 1901. p. 87.	A4.1:900 A99 Q.91
See also Brussels—Ghent—Liège.	A44,0,41
Bellevoye, M. A. Monomorium pharaonis, observations on. 1890.	
p. 230.	A9.7:2
p. 230. Belvosia, study of (Williston). 1893. p. 238.	A9.7:5
Ben Nevis Observatory, Scotland, notes on (Abbe). 1899. p. 470	A29.6:27
Benedict, Francis G. See, as joint author, Atwater, Wilbur Olin.	İ

	Index
Bengal, India:	Classification no.
Famine and food supply in. 1874. p. 232	A27.9:12
Jute crop of. 1888. p. 539 Rent unions in. 1875. p. 395	A27.9:26
Rent unions in. 1875. p. 395	A27.9:13
Bennett, A. W. Flowers, fertilization of. 1873. p. 586	A27.9:11
Bennett, Joseph B. See, for reports as appointment clerk, 1895–1902,	
Appointment clerk, Agriculture Department.	
Bennett, Thomas:	A1 1.80K
Cutworms, remedies for. p. 274	A1.1:889 A9.3:11
Bentley, Henry Lewis:	110.0.11
Cattle ranges of Southwest, history of exhaustion of pasturage	
and suggestions for its restoration, 1898.	A1.9:72
Forage crops and range improvements, progress of experiments in at Abilene Tex 1899	A 3 4.23
in, at Abilene, Tex. 1899.  Grasses and forage plants of central Texas. 1898	A3.3:10
Range improvement in central Texas, experiments in. 1902	A19.3:13
Bentley, W. A. Snow crystals, twenty years' study of. 1901.	1 00 0 00
p. 212	A29.6:29
Benton, Frank: Apiarian exhibit at Columbian Exposition, 1894. p. 242	A9.7:6
Bee keeping. 1897	A1.9:59
Bee keeping. 1897 Bees. How far do bees fly? 1892. p. 319	A9.7:4
Bees of great value to fruit and seed growers. 1892. p. 254	A9.7:4
Honey bee, a manual of instruction in apiculture.  Langdon nonswarming device. 1893. p. 230	
See also, as translator, Le Cocq.	A5.7.0
Berg, Walter G. Timber trestle bridges, economical designing of,	
notes on report of A. L. Johnson. p. 34	A13.3:12
Bergami, Francis. See Kilgore, Benjamin Wesley.  Bergami, Point N. J. Tomporetures obtained by kites at (Allen)	
Bergen Point, N. J. Temperatures obtained by kites at (Allen).  1898. p. 161	A29.6:26
Bergholz, Paul. Typhoons of Orient; origin, paths, and limiting	
zones of, translated by Cleveland Abbe. 1899. p. 402	A29.6:27
Bergroth, E. Water bug found by J. L. Zabriskie, note on. 1892.	AO 7.4
p. 321 Bering Sea ice and Oregon weather, notes on, 1890–99 (Beals). p. 201	A9.7:4 A29.6:28
Same (Abbe). pp. 163, 206.	A29.6:28
Berlin, Germany:	
Cost of hauling farm products over wagon roads at (De Kay). p. 4.	
Dead animals in, disposition of (Mason). p. 349	A4.1:899 A29.6:28
Meat consumption in. 1890. p. 45.	A27.9:28
Meat consumption in. 1890. p. 45.  Berlin, Germany, International Aeronautical Congress at, 1902,	
report on (Rotch). p. 356	A29.6:30
Berlin, Germany, International Congress for consideration of best methods for checking or curing Tuberculosis, May 24–27, 1899	
(De Schweinitz). p. 126	A4.1:899
Berlin, Germany, International Geographical Congress, 1899, notes	
on (Abbe). p. 470	A29.6:27
Berlin, Germany, Royal Agricultural Museum, description of. 1874.	A27.9:12
p. 321 Bermuda, peach pest in. 1890. p. 5	A9.7:3
Bermuda grass:	
Circular on (Hitchcock). 1901	A3.4:31
Monephora bicinta damaging, note on. 1886. p. 34	A9.3:12
Use of, for hay (Ransom). p. 87.	A1.1:883 A27.9:21
Bermuda lily disease, preliminary report of investigations (Woods).	,
1897	A28.3:14
Bernburg Agricultural Experiment Station, sand cultures at, methods	A 10 0.5
of (Hellriegel). 1895. pp. 749, 835	A10.6:5
17	A3.3:4
Berries. See Asparagus — Blackberries — Blueberries — Cranber-	
ries — Elderberry — Mulberries — Strawberries.	l

index	Classification no.
Berry, James:	
Address as chairman section of climate and crop service before second convention of Weather Bureau officials held at Mil-	
waukee, Wis., Aug. 27, 28, 29, 1901. 1902. p. 184	A29.3:31
American Association of State Weather Services, 2d annual con-	
vention of, proceedings of, with reference to former conventions. 1893. p. 228.	<b>A</b> 29.6:21
Climate and crop service publications. 1899. p. 150.	A29.6:27
Climate and crop service reports, extracts from, Oct., 1895-Dec.	4.00.0
1902 Corn, wheat, cotton, sugar, and rice region, Weather Bureau serv-	A29.6:
ice, instructions governing. 1897	A29.12:C81
Weather forecasts, methods employed in distribution of. 1901.	A 900 .000
p. 14. See also, as editor of proceedings, Weather Bureau officials, con-	A29.6:29
ventions.	
Berry, James E. State weather services, reports of, Apr., May, Sept.,	A 00 @ 00
1895. pp. 127, 164, 332  Berry, Thomas. Amity canal in Colorado, duty of water under.	A29.6:23
1900. p. 159	A10.3:86
Berseem, great forage and soiling crop of Nile Valley (Fairchild).	A 10, 9,09
Bertelli, Fr. Timotheus. Magnetic declination, discovery of, by	A19.3:23
Christopher Columbus. 1895. p. 486	A29.3:11 <sup>2</sup>
Berthoud, E. L.: Agricultural resources of Jefferson County, Colorado. 1869. p.	
Agricultural resources of Jefferson County, Colorado. 1869. p. 381*	A27.9:7
Locusts in North America, extracts from early literature on.	
1883. App. p. 59	A8.1:3
Butter and artificial butter, methods of distinguishing. 1889.	
p. 107	A7.3:24
Butters, mixed, application of methods Reichert, Meissl, and Wollny to. 1890. p. 105	A7.3:24
Bessey, Ernst A. See, as joint author, Webber, Herbert John.	111.0.22
Besson, Louis. Meteorology, optical, circumhorizontal arc in. 1902.	A 00. 0.00
p. 486Betts, Arthur. Irrigation by use of wire, report on, 1899. p. 301	A29.6:30 A29.6:27
Beutelspacher, Gustave. Canadian-British cattle trade, decrease in.	
p. 515 Beverages. See Cider — Coffee — Fermented alcoholic beverages —	A4.1:899
Liquors — Tea.	
Beverly, Robert. Beef, breeding and feeding of, and supply of mar-	4
ket therewith. 1883. p. 103	A1.7:2
Negroes, dietary studies among, in eastern Virginia, in 1898.	-
1899. p. 27	A10.3:70
Nutrition investigations in Pittsburg, Pa., 1894–96	A10.3:52
Erie College, Painesville, Ohio. 1901. p. 27.	A10.3:91
Biard, L. True ash in cane-sugar manufactory products incinerated	A7 9.91
with sulphuric acid. 1891. p. 77	A7.3:31 A9.3:12
Bicarbonate of soda in milk, detection of (Pade). 1889. p. 170	
Bicyclers, mechanical work and efficiency of (Carpenter). 1901.	A10.3:98
Bidwell, John. Seeds, experiments with. 1870. p. 24.	A27.9:8
Big Cottonwood Creek, Utah, duty of water on (Gemmell). 1900.	444
p. 197 Same (Gemmell). 1900. p. 165	A10.3:86 A10.3:104
"Big head" (disease) of sheep in Utah (Rowe). p. 230	A4.1:901
Big Horn Mountains of Wyoming, plants from (Rose). 1896. p. 567.	A6.5:3
Big Thompson River, irrigation from (Field). 1902. Big trees of California, 1900.	A10.3:118 A13.2:B48
Same, 1900	A13.3:28
,	

<sup>\*</sup>By a misprint, this page number appears twice.

	Index
Bigelow, Frank Hagar:	Classification no.
Atmosphere—	
line integrals in. 1900. p. 535 statics and kinematics of, in U.S., studies on. 1902. pp. 13,	A29.6:28
80, 117, 163, 250, 304, 347	
high and low, monthly notes on, July-Oct., 1895. report on. 1895. p. 117	A29.6:23
Balloon ascensions on March 24, 1899, in France. p. 197	
Barometry of U. S., Canada, and West Indies. 1902	
international, of Weather Bureau. 1899. p. 404	A29.6:27
international, some results of, for U.S. 1899. p.8	
Commission, results of	A29.1:899 <sup>2</sup>
Coordinate axes, standard system of, for magnetic and meteoro-	100 0.05
logical observations and computations. 1897. p. 201	A29.6:25 A1.10:898
Eclipse meteorology and allied problems. 1902	A29.5:I
Hann's (Julius) meteorology. 1902. p. 298	A29.6:30
Magnetic observations, notes on new method for, discussion of.	A29.3:2
Meteorological observations made to determine probable state of sky at several stations along path of total eclipse of sun,	1120.0.2
May 28. 1900. 1897. p. 394	
Same. 1898. p. 404.  Meteorologist, work of, for benefit of agriculture, commerce, and	A29.6:26
navigation. 1899. p. 71	A1.10:899
higher, in Weather Bureau. 1902. p. 19	A29.3:31
p. 500	A29.3:11 <sup>2</sup>
June, 1896.  Mexico, National Meteorological Congress of, 1st, 1900, digest of	A29.6:
report of. p. 311 Solar and terrestrial magnetism in their relations to meteorology.	A29.6:30
1898 Solar magnetism, report on relations of, to terrestial magnetism	A29.3:21
and meteorology. p. 519	A29.1:891 <sup>8</sup>
Storms, storm tracks, and weather forecasting. 1897	A29.3:20 A29.6:23
Temperature—	
comparison of, with magnetic horizontal force. 1894. pp. 415,	4.00 g.00
460, 504	A29.6:22 A29.6:23
diurnal range of, variation of, with latitude and locality. 1902.	
p. 134	A29.6:30
path of. 1899	A29.3:27
Aug., 1898	A29.6:26
Bigelow, Willard Dell: Food preservatives, use and abuse of. 1900. p. 551	A1.10:900
Foods and food control. 1902 Liquors, fermented and distilled, provisional methods for analysis	A7.3:69
of. 1902. p. 81	A7.3:65
Meat and meat products, provisional methods for analysis of. 1902. p. 7	A7.3:65
Preserved meats, adulterations of, report on, with collaboration of Edward Mackay Chance, L. S. Munson, L. M. Tolman, and	
others. 1902. p. 1375.	A7.3:13 10
others. 1902. p. 1375  Pure-food laws of European countries affecting American exports.  1901	A7.3:61
Wines, American, composition of. 1900	A7.3:58

Index	Classification no.
Bigelow, Willard Dell—Continued	
See also, as collaborator, McElroy, Karl P. — Wiley, Harvey	
Washington; as joint author, Ewell, Erwin Edgar; as joint	
editor, Chemical analysis, methods of. Bigelow, Willard Dell, and Sweetser, William S. Food adulteration,	
methods for determination of. 1897. p. 117.	A7.3:51
Billings, John Shaw, and Curtis, Edward. Fluids of diseased cattle	
with reference to presence of cryptogamic growths. 1869.	
p. 174 Same, p. 156	A1.2:C29 1 A1.2:C29 2
Billings, Mont. See Whitney, Milton, and Means, Thomas Herbert.	A1.2:028
Bingham, Joseph H. Address of, before American Association of	
Farmers' Institute Workers, at seventh annual meeting. 1902.	
p. 11 Biochemic investigations, culture media for (De Schweinitz). p.	A10.3:120
Biochemic investigations, culture media for (De Schweinitz). p. 145	A4.1:899
Biochemic laboratory, investigations conducted by, in 1892 (De	23.2.2.000
Schweinitz). p. 119	A1.1:892
Same, p. 105	A4.1:891-2
Same. 1893. p. 161.	A1.1:893 A9.7:5
Biologic notes on New Mexico insects (Townsend). 1892. p. 37 Biological and dairy building, at New York State Experiment Station,	A8.7:0
Geneva, N. Y., report on. 1899. p. 401	A10.6:10
Biological investigation of Hudson Bay region (Keewatin) (Preble).	
1902	A5.5:22
Biological reconnoissance of south central Idaho (Merriam). 1891 Biological reconnoissance of Yukon River region. 1900	A5.5:5
Biological Survey Division, Agriculture Department:	A0.0:19
Publications of	A5.
circular relative to distribution and sale of. 1896	A5.4:20
Relation of, to agriculture. 1890. p. 125	A5.5:3
	A1.10:897
Biological Survey: Mount Shasta, Cal., results of (Merriam). 1900	A5 5·16
San Francisco mountain region and desert of Little Colorado	210.0.10
River, Arizona, results of (Merriam). 1890	A5.5:3
Biology. See Metabolism.	
Birch: Coccid on, new (Hubbard and Pergande). 1898. p. 13	A9.6:18
Occurrence of Bucculatrix canadensisella on, in Rhode Island	A8.0.16
(Packard). 1892. p. 14.	A9.7:5
Plant-lice, two species of, inhabiting, life history of (Pergande).	
1901	A9.8:9
Birch trees, destructive borer enemy of (Chittenden). 1898. p. 44. Bird, William N. D. Ergotism among cattle in Kansas. p. 317	
Bird day in the schools.	A5.4:17
Bird-lice. See Mallophaga.	
Bird migration in Mississippi Valley in 1884 and 1885 (Cooke). 1888.	A5.3:2
Birds:	A 1 10.000
As weed destroyers (Judd). 1898. p. 221	A1.10:090
Bird laws and (Dodge). p. 431	A5.4:19
Destruction of—	
cotton worms by (Redfield). 1883. No. 65. p. 25	A27.9:21 ·
Reference of West for a control of the control of t	A9.0:20 A90 R.93
Farm, value of, on (Samuels). p. 201	A1.1:867
Effect of weather on (Smith). 1895. p. 212. Farm, value of, on (Samuels). p. 201. Food habits and distribution of, in parts of Minnesota and Dakota (Bailey). p. 426. same, p. 426. Food habits of, circular on	
(Bailey). p. 426	A1.1:887
Food habits of singular on	A5.1:887
Four common of farm and carden (Judd) 1895 n 405	A1.10:895
Four common, of farm and garden (Judd). 1895. p. 405. Grain, birds that injure (Beal). 1897. p. 345.	A1.10:897
Land, of New England, oology of some, as a means of identifying injurious or beneficial species (Samuels). p. 386.  Legislation for protection of birds other than game (Palmer)	
injurious or beneficial species (Samuels). p. 386	A1.1:864
Legislation for protection of birds other than game (l'almer)	AD. 3:12
Maryland farm, birds of (Judd). 1902	- AU.U.1(

	Classification no
Birds—Continued  Mulberries, birds which feed on (Merriam). p. 285	A1.1:890
same, p. 285	A5.1:890
Nestling, food of (Judd). 1900. p. 411 North American, geographical distribution and migration of, cir-	A1.10:900
cular on. 1887	A5.4:8
Noxious, danger of introducing (Palmer). 1898. p. 87 Observed in southern California, southern Nevada, and parts of	A1.10:898
Arizona, and Utah, notes on, being report on ornithology of	
Death Valley expedition of 1891 (Fisher). 1893. p. 7	A5.5:7
Orchard, how birds affect (Beal). 1900. p. 291	A1.10:900
Poisoning, experiments in (Fisher). p. 423	A5.4:50 A1.1:887
same, p. 423	A5.1:887
Presence of sarcosporidia in (Stiles). 1893. p. 79	A4.3:3
Protection and importation of, under act of Congress approved May 25, 1900	A5.4:29
Protection of—	280.4.20
Directory of State officials and organizations for 1901 (Palmer).	A5.4:33
same. 1902	
Laws for, in District of Columbia. 1901	A5.4:34 A1.1:890
same, p. 280	A5.1:890
Some common, in their relation to agriculture (Beal)	A1.9:54
Song, effect of approaching storms upon (Linney). 1898. p. 354. Stomachs of, directions for collecting. 1891	A29.6:26
same.	A5.4:12
Tres Marias Islands (Nelson). 1899. p. 21	A5.5:14
Useful and harmful. 1897. p. 670	A1.10:897
Why do birds migrate? (Abbe). 1899. p. 60. Yukon region, with notes on other species (Bishop). 1900. p. 47.	A29.6:27 A5.5:19
See also Baltimore oriole — Blackbirds — Blue jay — Bobolink—	110.0.10
Carrion crows—Cedar bird—Crow blackbirds—Crows—	
Cuckoos — English sparrow — European tree sparrow — Game birds — Grackles — Grosbeak — House sparrow — Killdeer	
plover — Kingbird — Marsh hawk — Meadow lark — Oriole—	
Ornithology — Owl — Pheasants — Pigeons — Sparrow — Spar-	
row hawk — Woodpeckers.	
Birds and game: Interstate commerce in. 1902	A5 4:38
National and State organizations for protection of—	110.4.00
1899. p. 713	A1.10:899
1900. p. 664 1901. p. 634	A1.10:900 A1.10:901
State officials and organizations concerned in protection of, direct-	
ory of. 1900	4 *** 4 ****
State officials concerned with protection of, list of—	A1.10:899
1899. p. 710	
1901. p. 634	A1.10:901
Birkheimer, Wm. E. Signal Service Bureau, sketch of work of, for	A 1 0 00
agriculturist. 1882. p. 110 Same. 1885. p. 191	A1.8:22 A1.7:9
Bishop, Louis Bennett. Yukon region, birds of, with notes on other	121.7.0
species. 1900. p. 47	A5.5:19
Bishop, W. H. Horticulturists of agricultural experiment stations,	
secretary's report of meeting at Columbus, Ohio, June 13, 14, 1889. p. 9	A10.3:3
Bissell, G.W. Iowa College of Agriculture and Mechanic Arts, Ames,	
Iowa, shopwork instructions at. 1894. p. 65	
Bisulphid. See Carbon bisulphid. Bitter rot. See Apple.	
Bitting, Arvill Wayne:	
Indiana, hog cholera and swine plague in. p. 199	A4.1:897
Veterinarian, experiment station, and local veterinarians in the	
State, desirability of cooperation between. 1898. p. 20	A4.1:898
ναιτό, μ. των	

	Classification no
Bitting, Arvill Wayne—Continued	1
Veterinarians, laboratory records for. 1898. p. 18	A4.3:22
Water supply, relation of, to animal diseases. p. 471 Bixby, William Herbert. Wood-creosote oil. 1887. p. 99	A4.1:899
Same. Reprint. p. 282	A13.3:1
Same. Reprint. p. 282.  Bjerknes, V. Atmosphere, circulatory movements in, dynamic prin-	110.0.5
ciple of. 1900. pp. 434, 532.  Black, Samuel E., short biography of (Abbe). 1898. p. 217	A29.6:28
Black, Samuel E., short biography of (Abbe). 1898. p. 217	A29.6:26
Black alkali. See Sodium carbonate.	
Black flies. See Buffalo gnats. Black-head sheep. See Somali.	1
Black Hills, South Dakota:	
Evotomys from, description of (Merriam). 1890. p. 119	A5.5:5
Flora of (Rydberg). 1896. p. 463 Marmot from, description of new (Merriam). 1889. p. 7	A6.5:3
Black Hills Forest Reserve, insect enemies of pine in (Hopkins).	A5.5:2
1902	A9.6:32
Black knot of plum and cherry trees (Peck). p. 175	A1.1:872
Dentity 2012 (Augitor). Pr Antononnonnonnonnonnonnonnonnonnonnonnonn	A27.9:12
Black-quarter. See Blackleg.	A 90, 0, 00
Black River thaw, note on (Abbe). 1900. p. 114	A29.0:28
Black scale:	
Australian enemies of. 1892. p. 41	A9.7:5
Of California—	
found in South Carolina, note on. 1886. p. 36note on. 1886. p. 34	A9.3:12
note on. 1886. p. 34. Black spot of asparagus berries (Fairman). 1889. p. 157.	A9.3:12 A28.5:5
Blackberry, lecanium infesting, considered identical with L. fitchii	A20.0.0
(Cockerell). 1894. p. 29.  Blackberry borers, notes on (Smith). 1891. p. 27.	A9.7:7
Blackberry rust, perennial mycelium of fungus of (Newcombe).	
1891. p. 106	A28.5:6
Depredations of, in northern Iowa and southern Minnesota in fall	
of 1887 (Fisher). p. 454	A1.1:887
same, p. 454	A5.1:887
Food of (Beal). 1900	A5.3:13
Blackleg or black-quarter:	
Among cattle, letter on (Watts). 1874. p. 157	A27.9:12
Nature, cause, and prevention (Nörgaard). 1898	A4.4:23
Preventive vaccination against (Nörgaard). 1897	A4.4:20
same. 1897. p. 7	A4.4:21 A4.1:893_4
same, n. d.	
Symptoms and treatment. p. 471	A4.1:887-8
United States; distribution of vaccine by Bureau of Animal	
Industry (Nörgaard). p. 27same, abstract; "Blackleg: its nature, cause, and prevention"	A4.1:898
(Nörgaard). 1900	A4.4:31
Utah, vaccination against (Merrill). p. 469	A4.1:899
Vaccine—	i •
directions for use of (Nörgaard). 1897	
same. 1900	A4.4:23 <sup>3</sup> A4.1:899
free distribution of (Nörgaard). p. 35	A4.1:900
Blackwell, Henry B. Beet sugar in Maine, statement concerning.	
1883. No. 61. p. 26	A27.9:21
	A.4 1.000
in. p. 205	A4.1:898
land). 1902. p. 35	A4.3:35
Blaisdell, F. E. Coleoptera, some species of, observed in San Diego	
County, Cal., notes on habits of. 1892. p. 33	A9.7:5
Dake, r. L. Cloud observations at Toronto. 1881. p. 19	1 AZ8.0:20

	Classification no
Blandford, Samuel M.:	
Climate of Idaho, some features of. 1901. p. 19.	A29.6:29
Idaho, water supply of, for season of 1900 as depending on snow-fall. p. 494	400 0.00
See also, as joint author, Pague, Bemer S.	A29.6:28
Blandford, W. F. H. Scolytidæ and their food plants, notes on.	
1894. p. 260	A9.7:6
See also, as joint author, Kanthack, A. A.	
Blarina, American genera, revision of shrews of (Merriam). 1895.	
p. 5	A5.5:10
Blasdale, Walter C. Chinese vegetable food materials, description	110000
of, and their nutritive and economic value. 1899	A10.3:68
Blastophaga psenes, first introduction of, into California (Eisen). 1891. p. 128.	A9.7:4
Bleclynder, A. H. Rheea fiber, information concerning. 1870.	A5.7.4
p. 227	A27.9:8
Blight, George. Guenon system of selecting cattle, value of. 1883.	112110117
p. 233	A1.7:2
Blight, pear-tree, report on (Taylor). 1872. p. 225	A27.9:10
Blister beetles, great damage to beans by, note on. 1886. p. 37	A9.3:12
Blister mite, pear-leaf, report on (Slingerland). 1892. p. 104	A9.7:5
Blizzard:	A 00. 0.00
Note on (Abbe). 1895. p. 465	A29.6:23
same (Abbe). 1899. p. 18	A29.6:26 A29.6:27
Sand (Abbe). 1895. p. 381	
Blodget, Lorin:	1120,0.20
Forest cultivation on plains, general discussion of. p. 316	A1.1:872
Short biography of (Abbe). 1901. p. 174	A29.6:29
Blom, Jules:	
Boots and shoes, American, in Denmark. p. 521	
Horse meat, American, in Denmark. p. 505	A4.1:900
Blood and serum injections in connection with Texas fever investigations, experiment in (Schroeder). p. 43	A4.1:899
See also Blood serum.	A4.1:000
Blood horse, essay on (Jackson). 1882. p. 50	A1.8:22
Blood louse, observations on cycle of sexual development of (Mokr-	
zhetski). 1898. p. 78	A9.6:18
Blood poisoning (malignant edema) in sheep and lambs in New Zea-	
land (Gilruth). p. 233	A4.1:901
Blood serum, experiments with, as a preventive and cure for Texas	V 1 1.000
fever (Robert). p. 482	A4.1:898
Blood-vessels diseases:	
Cattle (Harbaugh). p. 77	A4.2:C29 <sup>2</sup>
Horses (Trumbower). p. 219	A4.2:H78
Blount, A. E.:	
Cereals, improvement of. 1882. p. 104.	A1.8:22
Wheats, origin and treatment. p. 559	A1.1:881-2
Blue Hill meteorological observatory, Milton, Mass.:	4 90 B.05
Cloud observations and measurements at (Rotch). 1897. p. 12. same (Clayton). 1897. p. 135	A29.6:25
Exploration of air with kites at, progress in (Rotch). 1898. p.	A25.U.2U
355	A29.6:26
Kite, high, ascension at (Fergusson). 1896. p. 327	A29.6:24
same (Fergusson). 1897. p. 392	A29.6:25
Kite, high, ascension at (Fergusson). 1896. p. 327 same (Fergusson). 1897. p. 392 Kite experiments at (Fergusson). 1896. p. 323	A29.6:24
Note on (Abbe). 1898. p. 214.  Blue jay and its food (Beal). 1896. p. 197.  Blue Ridge, Southern, northwest gales of (Hawkins). 1899. p. 13.	A29.6:26
Ring Didge Courthour mouthwest color of (Hamilian) 1990 - 19	A1.10:896
Blueberries, improvement of (Smith). 1900. p. 18	A20.0;21 A1 Q:110
Bluegrass seed, Kentucky, harvesting, curing, and cleaning (Pieters	171.0.11 <u>0</u>
and Brown). 1902	A19.3:19
Blystone, M. E. Night forecasts, Weather Bureau; is it advisable to	
distribute by rural free delivery? 1902. p. 191.	A29.3:31
Blythe, W. T. Weather forecasts, distribution of, methods of sav-	
ing time in. 1902. p. 203	A29.3:31

Index	Classification no.
Boardman, Samuel L.:	Classification no.
Climate, soil, physical resources, and agricultural capabilities of Maine, with special reference to occupation of its new lands.	
1884	A1.7:4
Corn canning in Maine. 1886. p. 554	A27.9:24
Maine, agriculture of, some outlines of. p. 39  Nova Scotia and New Brunswick, tidal lands and diked marshes	
of. 1885. p. 33. Starch factories in Maine, report on. 1885. No. 19. p. 23	A1.7:7 A27.9:23
Boardman, Samuel P. Sheep husbandry in the West. p. 286	A1.1:862
Boards of health, State, list of. 1898. p. 603	
Same, 1899. p. 530  Boards of trade that publish commercial news, list of:	
1899. p. 758	A 1 10.899
1900. p. 752	A1.10:900
1901. p. 696	
Boat crews. See Harvard and Yale boat crews.	45.0.10
Bobolink, food of (Beal). 1900	A5.3:13
Body material, available energy of (Atwater). 1901. p. 112	
Boerner, Charles G. Short biography of. 1900. p. 22	A29.6:28
Boggs, Edward M. Water rights on Los Angeles River, Cal., study	
of. 1901. p. 327	A10.3:100
Hop cultivation in (Fairchild). 1899	A6.4:19
Horse-radish culture in (Fairchild). 1899	A6.4:20
Boise area, Idaho, soil survey of (Jensen and Oishausen). p. 421	A26.5:901 <sup>1</sup>
Boise Valley, Idaho, duty of water as related to irrigation prob-	
lems of (Ross). 1900. p. 219	
Boll worm:	A21.0.25
Chapter on. 1885. p. 355	A8.1:4
Injuring corn in California (Coquillett). 1889. p. 331	A9.7:1
Injuring tomatoes, experiments on (Tracy). p. 141	
same, p. 141 Mississippi, observations on (Mullen). 1893. p. 240	A9.1:888 A9.7:5
Report upon (Johnson)—	1201110
1880. p. 150	
1880. p. 150	
Boll worm of cotton:	h Astori
Progress in supplementary investigation of (Mally)—	
1891	A9.3:24
1893	A9.3:29 A9.2:C82
same (Jones). 1885. App. p. 17.	A8.1:4
See also Cotton insects.	
Bolley, Henry L.:	
Cheese-curd inflation; its relation to bacterial flora of foremilk.  1896. p. 78	A10.3:30
Experiment, its conception, and methods of procedure. 1898.	2210.0.00
p. 47	A10.3:49
Bollman, Lewis: Hop plant, cultivation of. p. 97	A1.1:864
Industrial colleges; nature of education to be given in them; their	
several kinds of instruction, etc. 1864	A27.2:In2
Silk cultivation, condition of, etc. p. 304	A1.1:872
Sorghum, cultivation of. p. 140	A1.1:862
See also, for reports as statistician, Agriculture Department, 1863	A1.1:862
and 1004	A 0.77 1
Bolton, B. Meade. Swine, epidemic diseases among. p. 135	A4.1:889-90
Bombycidæ, list of, taken by electric lamps at Poughkeepsie, N. Y.	
(Dyar). 1891. p. 322	Ta.1.9
•	

	Classification no
Bond, Edward A.:	:
Address of welcome at International Good Roads Congress, held	
at Buffalo, N. Y., Sept. 16-21, 1901. p. 9	A22.3:21
Highways, bonding system for improvement of. p. 38	A22.3:22
State aid to good roads in New York. 1901. p. 20	A22.3:21
Bond, Frank. Irrigation of rice on uplands of Louisiana and Texas.	A 10, 0,110
1902. p. 11	A10.3:113
Bond, Fred, and Wilson, James Maxwell. Irrigation system of Wyoming. 1901. p. 47	A10.3:96
Bond-aided and land-grant railroads, alphabetical list of, in U.S.	A10.0.00
1902	A13.2:R132
Bone fertilizers. See Fertilizers.	
Bones:	
Diseases and accidents to, of cattle (Atkinson). p. 281	A4.2:C29 <sup>2</sup>
Used as fertilizers, new process for dissolving. 1866. p. 337	A27.9:4
Bones and bone ash, export of, from Uruguay (Swalm). p. 519	A4.1:900
Bonsteel, Jay Allan:	1 00 F-0001
Soil survey of Kent County, Md. p. 173	
same, St. Marys County, Md. p. 125	A20.0:900
See also, as joint author, Dorsey, Clarence Wilbur. Bonsteel, Jay Allan, and Burke, R. T. Avon. · Soil survey of Calvert	ı
County, Md. p. 147	A26.5:9001
Bonsteel, Jay Allan, and Taylor, F. W. Soil survey of Salem area,	A20.0.000
New Jersey. p. 125	A26.5:9011
Bonsteel, Jay Allan, and party:	
Soil survey of Prince George County, Md. p. 173	A26.5:901 <sup>1</sup>
Soil survey of Yazoo area, Mississippi. p. 359	$A26.5:901^{1}$
Boots and shoes, American, in Denmark (Blom). p. 521	
Borax as a preservative of butter, letter relating to (Crosby). p. 576.	A1.1:878
Bordeaux mixture:	
Chemistry, physical properties, and toxic effects on fungi and algae (Swingle). 1896.	100 0 0
Fungicide (Fairchild). 1894	A28.3:9
Fungicide (Fairchild). 1894	A 20.5:0 A 98 5:7
Improved method of making (Swingle). 1891. p. 365.  Börgen, C. Polar expeditions, international, 1882–83. 1895. p.	A.20.0.7
469	A29.3:11 <sup>2</sup>
Borstel, E. von. Date, cultivation of. 1883. p. 25	A1.8:24
Bos, J. Ritzema:	
Aphelenchus olesistus, a nematoid worm, cause of leaf sickness	
in Begonia and Asplenium. 1893. p. 161	A9.7:6
Phytomyza affinis as cause of decay in clematis. 1893. p. 92	A9.7:6
Bosnia and Herzegovina, Austria-Hungary, agricultural development in. 1894. p. 197	A 97 0.90
Bosse, Eugene. Flax culture in the Northwest, investigation of, in	A27.9:32
1891. 1892. p. 40.	A11.5:4
Same, in Wisconsin and Minnesota. 1892. p. 43	A11.5:4
Bossert, Frederick. Manufacture of grape, blackberry, and other	
fruit wines, on Gall's method, with few remarks on culti-	
vation of grapevine in Germany, France, and U.S. p. 156	A1.1:863
Boston, Mass.:	
Cattle, sheep, and other ruminants, and swine, prohibition of	A 4 5-100
exportation of. 1902  Exportation of Canadian cattle from (Allerton)	A4.0:100
Live stock at, 1866-68. p. 22.	A1.2:029
Milk comply of other New England cities and (Whitekey) 1909	A4 3.90
Precipitation at. 1889–91. p. 108	A29.6:20
Precipitation at, 1889-91. p. 108  Weather forecast district, report of, monthly, July, OctDec.,	
1901 (Smith)	A29.6:29
1901 (Smith) same, JanOct., 1902 (Smith)	A29.6:30
Bot:	
Cottontail. Further notes on, with breeding and identification of	1077
fly (Townsend). 1893. p. 317	A9.7:0
Botanical collectors instructions to (Veccos). 1888. p. 76	AU. (:1 AR 9.1-7
Botanical collectors, instructions to (Vasey)  Botanical considerations of ramie question in France. 1892. p. 97.	A97 Q-1
Same. 2d ed. p. 97.	A11.5:1
Same, 2d ed. p. 97. Botanical Exchange Club, rules for (Vasey)	A6.2:B65
, ( ) , ( ) , ( )	· · · · · · · · · · · · · · · · · · ·

	Classification no
Botanical explorations in East Tennessee (Parry). 1870. p. 221	A27.9:8
Botanical history of sorghum (Peck). p. 299  Botanical instruction, importance of mycophagy in a course of	A1.1:865
(Starnes). 1898. p. 75	A10.3:49
Botanical notes (Vasey):	A10.5.45
1872. pp. 222, 313, 381, 446, 505	A27.9:10
1873. pp. 34, 115, 171, 247, 354, 503, 585	A27.9:11
1874. pp. 50, 151, 330, 379, 438, 513	
1875. pp. 126, 178, 313	A27.8.15
Alaska, 1898 (Evans). p. 48	A10.3:62
Dismal Swamp region (Kearney). 1901. p. 321	A6.5:5
Botanists at agricultural experiment stations in U.S.:	A10.3:99
Function of (Stone). 1901. p. 138	A10.3:88
1890	A10.3:6
Botany:	
Abstracts of reports of agricultural experiment stations on.	A 10 0.
1889–1902	A10.6:
1896 (Gain). 1897. p. 841, 940	A10.6:8
Cotton (Evans), 1896, p. 67	A 10.3:33
Death Valley Expedition (Coville). 1893	A6.5:4
Investigations in, circular regarding. 1890	
Publications on, in Agriculture Department library. 1902	A17.3:42
Text-books on (Coville). 1899. p. 104	A29.0:27
Yakutat Bay, Alaska (Coville and Funston). 1895. p. 325	A6.5:3
See also Agriculture — Plants — headings beginning Botanical.  Botany and agriculture of Rocky Mountain basins (Thompson). p.	
125	A1.1:866
Botany committee of Association of American Agricultural Colleges	410 = 0
and Experiment Stations, report of. 1890. p. 128	A10.5:3 A6.
Botany Division, Agriculture Department:  Cooperative branch stations in South, report of superintendent.	AU.
p. 209	A1.1:892
Publications of, list of (Coville)	A6.4:30
Record of some work of, including extracts from correspondence	A & 2.0
and other communications (Vasey). 1889. p. 7. Work of, for farmer (Coville). p. 90	A6.3:8 A1.10:897
See also Vegetable Pathology section.	
Botany section, Association of American Agricultural Colleges and	i
Experiment Stations, report of:	A 10 5.9
- 1890. p. 128. 1891. pp. 17, 101.	A 10.5:3 A 10.3:7
1892. pp. 33, 168.	A10.3:16
See also Horticulture and Botany section.	40.71
Botfly, emasculating, report on. 1889. p. 214  Bots in horses. 1866. p. 436	A9.7:1
Bots in horses. 1866. p. 436	A4.1:891-2
Boucart, Robert. Milk, analysis of, with view to determining its	
adulterations. 1889. p. 167	A7.3:24
Bouley, —. Pork, salted, of American origin, importation of, into	A4.3:30
France. 1884. p. 186.  Bounties, extermination of noxious animals by (Palmer). 1896.	A4.0.00
p. 55	A1.10:896
Bourbon, island of, probable origin of Icerya on (Riley). 1887. p. 27.	
Bourne, John H. Farm accounts, system of. p. 502	A1.1:865
Bovine lung plague. See Bovine tuberculosis — Pleuro-pneumonia.  Bovine tuberculosis:	
Bacillus, virulence of, for monkeys (Schweinitz and Schroeder).	
1902. p. 579	A4.1:901
Investigations concerning, with special reference to diagnosis and	A4.3:7
prevention. 1894.  Legislation with reference to (Salmon). 1901	A4.3:28
Relation of, to public health (Salmon). 1901	A4.3:33

	Index Classification no.
Bovine tuberculosis—Continued Soldiers' Home herd of 60 cattle, clinical notes on (Kilborne and	
Schroeder). p. 7 same, pathological notes (Smith). p. 26	A4.3:7 A4.3:7
Studies in, with special reference to prevention (Smith). 1894. p. 88	
See also Pleuro-pneumonia—Tuberculosis.	A4.3:7
Bovines, contagious pleuro-pneumonia and infectious bronco-pneumonia of (Fleming). p. 87.	A1.1:891
Same, p. 14. See also Cattle.	A4.1:891-2
Bowhill, Thomas:  Anthrax and Southern cattle fever among California cattle.	
p. 443 California cattle, mortality among, autopsies to determine causes	A4.1:887-8
of. p. 453.  Bowie, Walter W. W. Tobacco, culture and management of. p. 179.	A4.1:887-8
Bowstring hemp, results of recent investigations relating to (Dodge).	A1.1:867
1893. p. 52 Boxed or turpentine timber:	A11.5:5
Field report on (Roth). 1893. p. 32. Strength of (Fernow).	A13.3:8 A13.4:8
Box-elder plant bug, circular relative to (Howard). 1898	A9.5:28
Atmospheric circulation in tropical cyclones, as shown by movements of clouds. 1896	A29.2:At61
Weather forecasts and public. 1902. p. 151. Wind direction, some observations of, at different altitudes around	A29.3:31
West India cyclones. 1892. p. 50. Boyle, James. Liverpool, trade of, with United States. 1900.	A29.6:20
p. 517. Boynton, H. R. Waterspouts at Key West, Fla. 1899. p. 351	A4.1:899 A29.6:27
Boynton, Henry. Spanish merinos and their management. p. 196.	A1.1:864
Bozarth, John. Sorghum sugar experiments at Cedar Falls, Iowa.  1889. p. 57	A7.3:26
Brackett, Gustavus Benson: Apple, and how to grow it. 1900.	A1.9:113
Apple or charding, commercial. 1901. p. 593 Fruits, utilizing surplus. 1898. p. 309	A1.10:901 A1.10:898
Pomology Division, Agriculture Department, work of, for farmer. 1897. p. 111	A1.10:897
See also, for reports as pomologist, Pomology Division, Agriculture Department. 1897-99, 1901	A20.1:
Braconidæ, West Virginia, some bred (Hopkins). 1892. p. 256 Bradford, L. J.:	A9.7:4
Hemp culture. p. 91 Tobacco, culture and management of. p. 87	A1.1:863 A1.1:863
Bradley, J. N.:	A27.9:2
Cattle interests west of Mississippi River. p. 424. Swine and fowl industry of Missouri and annual loss by disease.	A4.1:885
p. 418.  Braidentown, Fla., remarkable aurora at, Nov. 18, 1899 (Ten	A4.1:885
Brainerd, Erastus. Agricultural possibilities of Yukon Valley, Alaska.	A29.6:27
p. 276. Brainerd, J. Inventions, American, for cultivation by steam, his-	A10.1 2:901
tory of. p. 253	A1.1:867
Brand, Albert. Electric signal apparatus, Weather Bureau station,	A22.3:23
Atlantic City, N. J. 1898. p. 405.  Brandenburg, Frederick H.:	A29.6:26
Colorado, water supply of, for season of 1900, as depending on snowfall. p. 493.	A29.6:28
Denver weather forecast district, monthly reports of, July, Sept.—  Dec., 1901  same, Jan.—Oct., 1902	A29.6:29
mame, JanOct., 1902	A29.6:30

	Classification 1
Brandenburg, Frederick H.—Continued	
Northers, cold waves, and heavy snows, possibility of giving	
warnings of, to stock-raising interests 48 hours in advance.	
1899. p. 33	A29.3:24
Weather and live-stock industry, report on. 1900. p. 588	A29.6:27
weather types, corresponding, lacilities for systematic study of.	A 90 <i>Q</i> .90
1901. p. 546 same. 1902. p. 136	A29.6:29 A29.3:31
Brandies, California wines and (Hilgard). 1882. p. 109.	A1.8:20
Branner, John Casper:	211.0.20
Cotton caterpillars in Brazil. 1885. App. p. 49	A8.1:4
Cotton in Empire of Brazil. 1885	A1.7:8
Insects injurious to cotton, orange, and sugar cane in Brazil, preliminary report of observations upon. 1884. p. 63	
preliminary report of observations upon. 1884. p. 63	A9.3:4
Road-making materials in Arkansas. 1894	AZZ.3:4
Brassica, seed coats of certain species of (Pieters and Charles). 1901.	A6.3:29
Brazil:	A27.9:29
Agriculture in. 1891. p. 196	
Cotton caterpillars in (Branner). 1885. App. p. 49.	A8.1:4
Cotton in; antiquity, methods, and extent of cultivation, etc.	1
(Branner), 1885	A1.7:8
Insects injurious to cotton, orange, and sugar cane in, preliminary	
report of observations upon (Branner). 1884. p. 63	A9.3:4
Statistics of, 1876. p. 482.	A27.9:14
Brazos River, Tex.:	A 90. 9. D79
Flood of June July 1809. map	A29.2:D13
Flood of June-July, 1899— effects upon agriculture of submerged region (Holmes)	A27.4:10
special report on, with notes of previous overflows of river	112771110
(Cline), p. 295	A29.6:27
Valley of, floods in, April 27 to May 17, 1900, special report on;	
also freshets in other streams (Cline). p. 198	A29.6:28
Brazos Santiago. See Rio Grande region, Tex.	
Bread:	110 0-04
Carbohydrates of (Stone). 1896.	A10.3:34
Digestibility and nutritive value of, report of investigations on (Woods and Merrill) 1900	A10.3:85
(Woods and Merrill). 1900	1110.0.0
and others). 1896.	A10.3:31
Bread making:	
At University of Minnesota, studies on, in 1897 and 1898 (Sny-	
der). p. 7	A10.3:67
same, 1899 and 1900 (Snyder)	
Experiments in, 1883. No. 3. p. 30.	AZ7.9:21
Losses in (Voorhees). 1899. p. 37	A1 0.112
Skim milk in (Langworthy). 1900. p. 16	A1.9:114
Studies on. 1899	A10.3:67
Breadstuffs:	1
American, foreign markets for. 1863. p. 4. No. 4	
British imports of, 1874–75. p. 460	A27.9:13
English imports of, Jan. and Feb., 1870–71. p. 143	
Exports of, from U. S., FebMay, 1867. p. 248.	A27.9:0 A97 0.2
Imports of, into Great Britain, 1863-64. No. 1. p. 39	
1000 - 50	1 10 0 70
Breed, Daniel. Insect destruction, recent inventions for. p. 323	A1.1:876
Breed, (Miss) S. Evelyn. Teaching domestic science in rural dis-	
Breed, (Miss) S. Evelyn. Teaching domestic science in rural districts. 1902. p. 91.  Breeder, work of, in improving live stock (Clay). 1899. p. 627	A10.3:120
Breeder, work of, in improving live stock (Clay). 1899. p. 627	A1.10:899
Breeders, State associations of, list of. 1900. p. 653	A1.10:900
Same. 1901. p. 628	A1.10:901
Breeding: Away and periods important in 1900 n 740	A1 10-000
Animals imported for 1896 n 243	A4.1:897
Ages and periods important in. 1900. p. 740  Animals imported for. 1896. p. 243  Physiology of (Goodale). p. 222	A1.1:862
J ( ).	

	Index Classification no.
Breeding—Continued Suggested experiments in (Brewer). 1893. p. 162 same (Brewer). 1893. p. 458.	A10.3:16 A10.6:4
See also Animal — Plant — Stock.  Brefeld, Oskar. Smut fungi and smut diseases, recent investigations of. 1891. pp. 1, 59, 153	A28.5:6
Brendle, A. S. Weather as a topic of conversation. 1899. p. 160. Brewer, I. N. Climate in Philippines, notes on. 1900. p. 102 Brewer, W. H. Rainfall and charts of rainfall. 1902. p. 229	A29.3:24 A29.6:28
Brewer, William H. Breeding, suggested experiments in. 1893. p. 162 Same. 1893. p. 458	
Brewster, James N. Convict labor, plan for use of, on roads. 1895. p. 7. Brick paving for country roads. 1896. Brick wheel-track roads. See Roads.	A10.6:4 A22.3:16 A22.4:25
Bridge and trestle timbers, strength of, report of committee of American International Association of Railway Superintendents of Bridges and Buildings on. 1895. p. 41	A 19 9.19
Bridges, country road (Wentworth). 1895. p. 48	A22.3:11
Bridges and buildings. See Railway Superintendents of Bridges and Buildings, American International Association of.  Briggs, Lyman James:	
Alkali soils, mechanical analysis as applied to, some necessary modifications in methods of. 1900. p. 173	A1.8:64 A26.3:19
Electrical instruments for determining moisture, temperature, and soluble salt content of soils. 1899.  Ground temperature observations at St. Ignatius College, Cleve-	A26.3:15
land, Ohio. 1902. p. 301 Salts as influencing rate of evaporation of water from soils. 1900, p. 184 Soil moisture, mechanics of. 1897	A29.6:30 A1.8:64 A26.3:10
Soils, physical properties of— Investigations on. p. 413 Objects and methods of investigating certain. 1900. p. 397.	A26.5:900 <sup>1</sup>
Water, movement and retention of, in soils. p. 399	A1.10:898
Briggs, Lyman James, and Lapham, Macy H.: Salts, dissolved, influence of, on capillary rise of soil waters. 1902. p. 5	A26.3:19
Water, capillary movement of, in dry and moist soils. 1902. p. 19. Brigham, Joseph Henry. Government aid in highway improvement. 1902. p. 33	A26.3:19 A22.3:25
See also, for reports as Assistant Secretary of Agriculture Department, in charge of seed distribution. 1898–1900.  Brill, G. D. Chinese incubators. p. 247	A24.5: A4.1:900
Brillouin, Marcel: Atmosphere, general circulation of, original memoir on. 1901. p. 300	A29.6:29
Atmospheric electricity: its origin, variations, and perturbations. 1897. p. 440 Winds and clouds, report on. 1897. p. 437.	A29.6:25
Bristol, England: Butter markets (Ashby). p. 210 Egg trade. p. 335	·
British. See Great Britain. British America. See Canada. British Association, Belfast, 1902, address on meteorology at (Schuster).	
1902. p. 448  British-Canadian cattle trade, decrease in (Beutelspacher). p. 515  British Columbia:	A 29.6:30 A 4.1:899
Deer skins from, exports of (Smith). p. 519  Legislation against injurious insects; compilation of laws and regulations in (Howard). 1895	A4.1:900
See also Queen Charlotte Islands.	AB.0:00

Index	Manufaction as
British India. See India.	Classification no.
British West Indies. See Trinidad — West Indies.	
Britton, W. E.: Nursery inspection in Connecticut. 1899. p. 131	A 10 3 -85
San Jose scale in Connecticut. 1898. p. 81	A9.6:17
Trees, banding of, to prevent injury by fall cankerworm, observations on. 1901. p. 160.	A10.3:99
Vegetation house arranged for pot experiments. 1901. p. 152	A10.3:99
Brokers. See Produce brokers. Brome grass:	
Beardless, seed of (Pieters). 1900	A6.4:25
Beardless, seed of (Pieters). 1900 Hungarian, circular on (Scribner). 1894	A6.4:1
Smooth, circular on (Kennedy). 1899	A3.4:18
Bromin. See Proteid matters.	
Bromus, North American species of, occurring north of Mexico, revision of (Shear). 1900	A3.3:23
Bronchitis:	
Cattle (Williams). p. 603	A1.1:880
Parasitic, among calves (Trumbower). p. 465.	A4.1:884
Verminous, in calves and lambs, and its treatment by tracheal injections. p. 554	A1.1:885
88me. p. 278	A4.1:885
Bronson, B. H. Weather observers, voluntary, should not a book	
be provided for keeping record of issue of instruments and flags to? 1899. p. 126	A29.3:24
Brontometer, use of (Symons). 1901. p. 463	A29.6:29
Brontometer, use of (Symons). 1901. p. 463.  Bronze apple-tree weevil (Chittenden). 1900. p. 37.	A9.6:22
Brooklyn, N. Y.:	
Animals in, contagious diseases of, preliminary report of veter- inary inspectors in investigation of (McLean and others).	
1884. n. 19	A1.7:6
Leopard moth in, ravages of (Pike). 1892. p. 317	A9.7:4
Museum of meteorology at, notes on (Abbe). 1900. p. 163	A29.6:28
Brooks, Wm. P. Japan, migratory locust in, 1883. App., p. 59 Broom-corn:	A8.1:3
Cultivation of. 1876, p. 56	A27.9:14
Culture of, in New York State. 1867. p. 286	A27.9:5
Reports on	A10.4:28
Broun, William L. Roy. Address of, as president Association of American Agricultural Colleges and Experiment Stations,	
before sixth annual convention. 1893. p. 58	A10.3:16
Same (extract)	A10.2:C434
Broun's law of winds and currents, notes on (Abbe). 1898. p. 264.	A29.6:26
Brown, Edgar. See, as joint author, Pieters, Adrian John. Brown, J. P. Forests of Washington Territory. 1884. p. 388	A13.5:4
Brown, James H. Adulteration of dairy products. 1893. p. 54	
Brown, Ryland T.:	
Agriculture, organization of. 1882. p. 108.	
Chemical memoranda, monthly, FebDec., 1872	A27.9:10
See also, for reports as Chemist, Chemistry Bureau, Agriculture	
Department. 1871, 1872	A7.1:
Department. 1871, 1872  Brown, Simon. Farmers' gardens. p. 337	A1.1:863
Brown, Simon, and Reynolds, Joseph. Manures and their applica-	
tion. p. 368.  Brown, W. V. Weather maps, proposed classification and index of,	A1.1:865
as aid in weather forecasting. 1901. p. 547	A29.6:29
Brown coal and wood char in filtration of cane juices and sirups	
(Thompson). p. 268 Same, 1889. p. 99	A1.1:887
Brown rot. See Grape.	A7.3:17
Brown-tail moth:	
Massachusetts, report on (Kirkland). 1900. p. 75	A9.6:26
Massachusetts, report on (Kirkland). 1900. p. 75	A9.6:17
Browne, U. A., jr. Starch, estimation of, report on. 1899. p. 92	A7.3:57

	Classification no.
Browne, Orris A. Address of, before convention of National League	
for Good Roads, Washington. 1893. p. 24	A10.3:14
Bruce, Eugene S. See, as joint author, Hosmer, Ralph Sheldon Bruchus, food-plants of North American species of. 1893. p. 165	A9.7:5
Bruette, William A. Horses, export of, from Chicago market.	A8.7.0
	A1.2:H78
Bruhl, Louis H. Catania, Italy, cost of hauling farm products over	312.2.1110
wagon roads at, p. 10.	A22.4:27
Bruner, Lawrence:	
Beet insects, notes on. 1891. p. 229	A9.7:3
Cicindela limbata, report on. 1889. p. 144	A9.7:2
Grasshopper report—	A O. O. 7
1895. p. 31 1896. p. 36	A9.0:7
1901. p. 39	A9.6:38
Grasshoppers, outbreak of, in Idaho, report on. 1890. p. 135	A9.7:3
Insect injuries in Nebraska in—	110.11.0
1884. p. 398	A1.1:884
1887. p. 164	A1.1:887
1887. p. 33	
1888. p. 139	
1888. p. 139	
1889. p. 95 1890. p. 9	
1890. p. 9 1891. p. 9	
1892. p. 34	
1893. p. 9	
Locusts, destructive—	11010101
· found in America, north of Mexico, in 1891, reports on. p. 9.	A9.3:27
Same. 1892	A9.3:28
killing, with fungous diseases. 1902. p. 50	A9.6:38
North America, with notes on occurrences in 1891. 1891. p. 18.	A9.7:4
Orthoptera from Death Valley expedition. 1893. p. 266	A0.0:7
Pezotettix, new species of. 1894. p. 41.  Phosphorescent myriopods, report on. 1891. p. 319.	A9.7:3
Rocky Mountain locust, observations on—	40.7.0
1882. p. 7	A9.3:2
1883. p. 51	A9.3:4
1885. p. 303	
1888. p. 65	A9.7:1
Texas, locusts in, during spring of 1886. 1887. p. 9	A9.3:13
Brunswick, Germany, cost of hauling farm products over wagon roads at (Tingle). p. 7	A 00. A .07
Brussels, Belgium:	AZ2.4:21
Dead animals in, disposition of (Roosevelt). p. 354	A4.1:899
Importation of American horses into (Langhorne). 1897. p. 26.	
Brussels, International Veterinary Congress, report of (Law). p. 321.	
Same, 1884. p. 122	
Bryan, Enoch A.:	
Agriculture Department and experiment stations, cooperative	110.0.00
work between, report of committee on. 1901. p. 59 Education, theory of higher, some recent changes in. 1899. p. 87.	
Bryan farm. See Maryland farm.	A10.3.00
Bryant, Arthur Peyton. Dietary studies in U.S., some results of.	
1898. p. 439	A1.10:898
See also, as collaborator, Atwater, Wilbur Olin; as joint author,	
Atwater, Wilbur Olin — Frisby, Almah J.	
Bryobia, species of, infesting dwellings, notes on (Webster). 1889.	1071
p. 277	A9.7:1
Bucculatrix canadensisella, occurrence of, on birches in Rhode Island (Packard). 1892. p. 14	A9.7:5
Buchan, Alexander. Rainfall and charts of rainfall. 1902. p. 242.	
Buchanan, William Insco. Great Britain's purchases of cavalry	
horses in Argentina. 1898. p. 22	A1.2:H78
horses in Argentina. 1898. p. 22  Buck, Norman. Minnesota flour, improved. p. 388.	A1.1:875
Buckham, M. H. Morrill, Justin Smith, remarks on resolutions of	
respect for. 1900. p. 30	A10.3:76

	Classification no.
Buckley, S. B. See Merrill, Elmer D.	
Buckwheat. See Crops, principal.	
Budd, James H. California, road improvement in, extract from governor's message. p. 1	A22.4:33
Buenos Ayres, Argentina, gale at (Abbe). 1895. p. 381	A29.6:23
Buffalo, N. Y., and vicinity, export of horses from (Hinkley). 1898.	
p. 88Buffalo, N. Y., International Good Roads Congress, Sept. 16–21, 1901:	A1.2:H78
Letter of invitation to, inclosing official call. 1901.	A22,2:B86
Proceedings of. 1901	
Proceedings of. 1901. Resolutions adopted by. 1901. p. 70.	A22.3:21
See also Moore, W. H.	
Buffalo, N. Y., Pan-American Exposition, 1901:  Canadian cattle for exhibition at, order providing for importa-	
tion of. 1900.	A4.5:65
Chemistry Bureau, exhibit at (Ewell and others). 1901	A7.3:63
Weather Bureau exhibit at (Maring). 1901. p. 259	A29.6:29
Weather map of Buffalo, destruction of, 1873. p. 41	A29.2:P19 A27 9:11
Buffalo-gnats or black-flies:	222110122
Notes on Simulium or common, at Ithaca, N.Y. (Howard). 1888.	
p. 99	A9.7:1
Report on (Webster). 1887. p. 29	A9.3:14
same (Marlatt). 1889. p. 7	1 A.O. I .A
Simulium or, infesting country adjacent to Mississippi River	
(Webster). p. 456	A4.1:887-8
Buffalo moth. See Carpet beetle.	
Buffalo tree-hopper: Circular relative to (Marlatt). 1897	A9.5:23
Report on (Marlatt). 1894. p. 8	A9.7:7
Buffum, B. C.:	
Alkali and irrigation, recent investigations by Wyoming experi-	A10.3:76
ment station in. 1900. p. 69	A10.5:76
ship and distribution of natural supply. 1900	A10.3:81
Bugbee, E. L. Seacoast telegraph lines, instructions to operators on.	
1892  Publish production and propulations of (Convillate) 1998 - 7	A29.12:Se1
Buhach, production and manufacture of (Coquillett). 1886. p. 7 Buildings:	A9.3:12
Earthquake proof (Abbe). 1897. p. 309	A29.6:25
same (Abbe). 1901. p. 507 Humidity, relative, inside and outside of (Henry). 1896. p. 456.	A29.6:29
Humidity, relative, inside and outside of (Henry). 1896. p. 456.	A29.6:24
See also Churches. Bulbs, etc., distributed from U.S. propagating garden, catalogue of	
(Saunders). 1862	A1.8:2
Bulk fermentation of Connecticut tobacco (Floyd). n.d	A26.4:5
Bullets, penetration of snow by (Abbe). 1895. p. 424	
Bünzli, J. H. Potato blight, combating, report on. 1891. p. 78 Bur, or globe, artichokes, circular on (Swingle and Fairchild). 1899.	
Burchard, Oscar. Seed investigation, object and methods of, and	220, 2,22
establishment of seed-control stations. 1893. pp. 793, 882	A10.6:4
Burgess, Albert F.:	A O 6.17
Coccinellid, abnormal, report on. 1898. p. 59	A9.6:17
Ohio, notes on use of. 1902. p. 33.	A9.6:37
Ohio, notes on use of. 1902. p. 33.  Tan-bark beetle, destructive, report on. 1899. p. 107	A9.6:20
See also, as joint author, Webster, Francis M.  Burgoss, Edward, See, as joint author, Minot Charles Sodowick	
Burgess, Edward. See, as joint author, Minot, Charles Sedgwick. Burke, Frank. Short biography of (Abbe). 1898. p. 68	A29.6:28
Burke, R. T. Avon. See, as joint author, Bonsteel, Jay Allan.	
Wortfold area Now York soil survey of 75	A26.5:901 1
Burkett Charles M. [William] Pig fooding in New Hampshire	V70'9:801 ,
experiments in. p. 465	A4.1:899
Burke, R. T. Avon, and Marean, Herbert W.:  Cobb County, Ga., soil survey of. p. 317  Westfield area, New York, soil survey of. p. 75  Burkett, Charles M. [William]. Pig feeding in New Hampshire, experiments in. p. 465  Burley tobacco, its growing and curing (Scovell). 1901. p. 106	A10.3:99

	Index
Purme India dust storms in and alsowhore notes on (Abba)	Classification no.
Burma, India, dust storms in, and elsewhere, notes on (Abbe).  1901. p. 175	A29.6:29
Burnett, E. A. See, as joint author, Chilcott, Ellery Channing.	
Burrill, T. J. See, as joint author, Shakespeare, Edward Orum.	
Burrough, Edward:	100010
Address of, before national road conference, July, 1894. pp. 6, 10	A22.3:10
Road building, State aid to, in New Jersey. 1894.	A22.3:9
Burrows, Alvin T.: Chinook winds. 1901. p. 555	A 1 10.001
Hot waves: conditions which produce them, and their effect on	A1.10:801
agriculture. 1900. p. 325	A1.10:900
Bursattee, disease of horse in India. See Leeches.	
Burtis, F. C. See, as joint author, Cottrell, H. M.	
Burton, W. M. See, as joint author, Morse, H. N.	
Busck, August:	
Cocoanut palms, diseased, in Cuba, report of investigation of.	
1902. p. 20	A9.6:38
	10.0.00
on. 1902. p. 32	A9.6:38
on. 1900. p. 88	A9.6:22
See also, as collector, Pergande, Theodore, and Cockrell, Thomas	10.0.22
Dru Alison.	
Bushel, weights of. 1901. p. 786	A1.10:901
Bushnell, Asa S. Ohio, road improvement in, extract from gover-	
nor's message. p. 7.	A22.4:33
Butler, Amos W. Periodical cicada in southeastern Indiana. 1886.	
p. 24	A9.3:12
Butler, William E. Short biography of (Abbe). 1898. p. 68	A29.6:26
Butler County, Kansas, southern cattle fever in, outbreak of 1883	A 4 7 .004
(Trumbower). p. 420 Same, 1884. p. 239	A4.1:884 A4.2:An5
Butter:	A4.2.All0
American—	
analyses of, averages of (Richards). 1886. p. 23	A7.3:16
in Japan (Ruffin). p. 521	A4.1.898
in Japan (Ruffin). p. 521  Analysis of, method for (Morse and Burton). 1890. p. 99	A7.3:24
Artificial, methods of distinguishing (Besana). 1889. p. 107	A7.3:24
Borax as a preservative of, letter relating to (Crosby). p. 576	A1.1:878
Commercial butter cultures used in connection with pasteurized	44.0.400
cream (Allen). 1898. p. 21.	A1.9:103
Composition and analysis of, abstracts of data relating to. 1889.	A 7 9.94
p. 99	A7.3:24
from Chicago dairy show, December, 1889 (Morrow). p. 188.	A7.1:889
influence of food on (Von Lookren). 1890. p. 141	
variations in (Babcock). 1886. p. 23	A7.3:16
Dubernard method for examination of (Sartori). 1890. p. 103.	A7.3:24
Experimental exports of, 1897 (Alvord). p. 83	A4.1:888
same, 1898–99 (Alvord). p. 154	A4.1:899
Exported, chemical analyses of. p. 240	A4.1:899
Fatty volatile acids of, contribution to study of (Spallanzani).	A = 0 04
1890. p. 104.	A7.3:24
Foreign and homemade, scores of, in competition. 1899. p. 226.	A4.1:899
Foreign made, analyses of. p. 242.  Irish, trade in. 1865–67. p. 379.	A4.1:000 A97 O.5
Market quotations on, 1897 and 1899. p. 216	A4.1.899
Markets for. See Ashby, Newton B.	1111100
Melting point and chemical composition of, influence of different	
foods upon. 1890. p. 141	A7.3:24
foods upon. 1890. p. 141.  Microscopic observations, fats and (Taylor). 1884	A1.8:34
Mixed, application of methods Reichert, Meissl, and Wollny to	
(Besana). 1890. p. 105	A7.3:24
(Besana). 1890. p. 105.  Nostrums for increasing yield of (Wiley). 1893.  Paraguay (Ruffin). p. 521.	A1.9:12
Paraguay (Ruffin). p. 521	A4.1:898
Philadelphia how made = 201	A4.1:099 A1 1.987
Philadelphia, how made. p. 291	A1.1.001

	Classification no
Butter—Continued  Production of type of dairy gow in relation to (Lewson) 1901	ı
Production of, type of dairy cow in relation to (Lawson). 1901. p. 28  Production statistics of cheese and. 1873. p. 279	A1.9:124 A27.9:11
Quality of, effect of cotton-seed meal on (Allen). 1900. p. 24. Scores of, exported. 1899. p. 226. Stripper, note on. 1898. p. 24. Volatile acids in, determination of total (Goldmann). 1890.	A4.1:899 A1.9:84
p. 112 Water in. 1901. p. 30 See also Oleomargarine — Renovated butter.	l
Butter factories. See Creameries. Butter fat: Milk or cream, method of determining, by difference (McKeown).	
1894. p. 194  Refractive index of (Wiley). 1888. p. 36  Soluble acids in, estimation of (Planchon). 1890. p. 112	A7.3:24
Variations of volatile acids in (Menozzi). 1890. p. 111	A7.3:24
Farm (Goodrich). 1897  Pasteurization of milk for. 1899. p. 23  Recently patented process of (Salmon). Nov. 20, 1897  Swartz system of, in Sweden (Andrews). 1876. p. 198  Testing cows as to, some notes in connection with (Scovell).	A1.9:92 A21.2:B97
1899. p. 123  Butter standard, paper relative to (Curtis). p. 142  Butter substitutes (De Schweinitz). 1895. p. 445  Butterfly, gray hair-streaked, its damage to beans. 1895. p. 354	A10.3:65 A1.7:2 A1.10:895
Butterweck, Otto Carl. Culture of tobacco. 1898  Cabbage: Black rot of (Smith). 1898	A1.9:82 A1.9:68
Loss of nutrients in boiling (Snyder). 1897. p. 7.  See also Garden vegetables.  Cabbage and allied plants, bacterial disease of (Russell). 1898.  p. 86	A10.3:43 A10.3:49
p. 86	
Remedies for, reports on (Lacey). p. 133 same, p. 133 same (Rives), p. 134	A 9.1:883
same, p. 134 Report on. p. 107 same, p. 107	A9.1:883 A1.1:883 A9.1:883
Cache County, Utah, soil survey in (Means). 1900. p. 115. Cache Creek, Cal., irrigation investigations on (Wilson). 1901. p. 155	A1.8:64 A10.3:100
Cache la Poudre Valley: Colorado, soil survey in (Means). 1900. p. 121 Reservoir system of, report on (Nettleton). 1901.	A10.3:92
Caccia cerasivorana, oviposition of (Weed). 1900. p. 33 Cactus, North American species of, preliminary revision of (Coulter).  1892. p. 91	A9:6:26 A6.5:3
Cactus. See also Cereus—Opuntia.  Cactuses, geographic and vertical distribution of, in deserts and desert ranges of southern California, southern Nevada, northwestern Arizona, and southwestern Utah, notes on (Merriam).	
1893. p. 345.  Cailletet, Paul Louis. Photographic apparatus for measuring altitudes attained by balloons. 1897. p. 443	A5.5:7 A29.6:25
Caire, Thomas A. See, as joint author, Mooney, Charles N. Caire, Ill., water travel at, lines of equal time of. 1892	A29.2:R13 <sup>1</sup> A29.6:28
1898. p. 7. Calamovilfa, notes on (Scribner and Merrill). 1901. p. 2	A3.3:11 A3.4:35

	Index Classification no
alcium carbonate, solubility of, in aqueous solutions of certain	
electrolytes in equilibrium with atmospheric air (Cameron	į į
and Seidell). 1901. p. 58	A26.3:18
alcutta, India, hides and skins from, imports of (Patterson). p. 523. aldwell, George Chapman:	A4.1:898
Address of, as president of Association of Official Agricultural	
Chemists, at eighth annual meeting. 1891. p. 7	
Agricultural experiment station as educator of farmer. 1882. p. 20.	
Horse, analysis of urine of, in last stages of influenza. p. 247	A1.1:872
alf. See Calves. Alico back cabbage bug. See Harlequin cabbage bug.	i
alifornia:	
Agricultural resources of (Dunn). p. 581	A1.1:866
Agricultural situation in (Mead). 1901. p. 17	A10.3:100
Agriculture of—	A 1 1.000
1862. p. 588	A1.1:802 A27.9:5
1872. p. 199	A27.9:10
1878. (Hilgard). p. 476	A1.1:878
Alfalfa in. 1872. p. 296	A27.9:10
Alkali soils and waters in, 1888-89 (Hilgard). p. 297	
Angora goat in. 1891. p. 35	A27.9:29
p. 127.	A9.7:5
Beet-sugar factories in, information relative to. 1870. p. 357	
Beet sugar in. 1887. p. 452	A27.9:25
Big trees of. 1900	
Plack cools in note on 1996 p 24	A13.3:28
Black scale in, note on. 1886. p. 34	A9 3:12
Blastophaga psenes, first introduction of (Eisen). 1891. p. 128	A9.7:4
Butter, export of, to Orient (Pearson). p. 266	A4.1:899
same (reprinted). 1900	A4.3:24
Capri fig experiments in, present status of (Howard). 1899. p. 28. Cattle—	A9.6:20
anthrax and Southern cattle fever among (Bowhill). p. 443	A4.1:887-8
same, further investigation (Chandler). p. 450	A4.1:887-8
destruction of, by various diseases (Mercer). p. 452	
same, report of autopsies (Bowhill). p. 453	
industry of (Mercer). p. 239quarantine line for, order modifying—	A4.1.000
Mar. 19, 1897	A4.5:2
Dec. 16, 1897, p. 4	A4.5:8-14
Mar. 25, 1898	
Aug. 30, 1899	A4.5:40 A4 5:40_55
Dec. 14, 1900, p. 10	
Jan. 11, 1902, p. 4	
Dec. 27, 1902, p. 4	A4.5:101
See also Sacramento County — Solano County.	
Central, land in, methods of applying water to (Grunsky). 1891.	A15.2:Ir7
pt. 1. p. 307. Climate, soil characteristics, and irrigation methods of (Irish).	
1895. p. 475	A1.10:895
1895. p. 475 Climatology of, note on (Abbe). 1900. pp. 165, 249 Colombia of comp (Consillate)	A29.6:28
Coleoptera of, nabits of some (Coquinett). 1892. p. 200	A9.73
Corn worm or boll worm in (Coquillett). 1889. p. 331	A27.9:10
Cotton raising in. 1872. p. 493	A27.9:28
Dairying in	_
circular on (Wickson) 1896	A4.3:14
noves upon export of California Dutter to the Urient and (Pear-	A4 1.900
notes upon export of California butter to the Orient and (Pearson). 1900. p. 266 same (reprinted). 1900.	A4.3:24
Donations from, at museum of Agriculture Dept. 1866. p. 342	<b>A27.9:4</b>
Dry northers of (Abbe). 1895. p. 212 Eggs of, food value of (Jaffa). p. 510	A29.6:23
	1

index	Classification no.
California—Continued	Attendancement mat
Electric storms of (Barwick). 1897. p. 539	A29.6:25
Entomological work in, in 1893 (Koebele). p. 33	A9.3:32
Exotic fruits and useful plants of (Hilgard). 1892. p. 137	A1.8:20
Farm resources and products of. 1868. p. 272	A27.9:6
Farmers of, financial condition of. 1890. p. 637	A27.9:28
Frosts in. (Hilgard). 1896. p. 166	A29.6:24
Frosts in. (Hilgard). 1896. p. 166 Fruit-growing in. 1892. p. 99	A1.8:20
Fruit industry of, statistics of (Holmes). 1901	A27.8:23
Fruits from, transportation rates on. 1883. No. 59. p. 45 Fruits of, tropical and semitropical (Klee). 1891. p. 111	AZ7.9:Z1 A20 Q-1
Grape culture in, present condition of (Husmann). 1898. p. 551.	A1.10:898
Grape products. 1887. p. 583	A27.9:25
Grasses of, plates and descriptions of (Vasey). 1892	A6.2:N822
Same	A6.3:13
Grasshoppers in, destructive. 1872. p. 22	A27.8:10 A9.3:12
Hop culture in (Flint). 1900	A1.9:115
Horticulture quarantine rules. 1892. p. 166	A1.8:20
Insect, new beneficial, in, establishment of (abstract) (Howard).	
1900. p. 16. Insect control in (Marlatt). 1896. p. 217	A9.6:26
Insect pests in, action taken regarding. 1892. p. 158	A1.10.880 A1.8:20
Insects of—	227.0.20
beneficial and injurious, in 1892 (Coquillett). 1893. p. 9	A9.3:30
general notes on in 1890 (Koebele). p. 37	A9.3:23
notes on (Woodworth). 1900. p. 90report on, 1889 (Koebele). p. 85	A9.6:26 A9.3:22
some injurious, in 1893 (Coquillett). p. 22.	A9.3:32
Inspection of trees, plants, fruit, etc., as conducted under laws in	
(Lelong). p. 12	
Irrigation—	A10.3:100
investigations in, report of. 1901	A1.10:895
report on. p. 352	
Land drainage in. 1869. p. 231	A27.9:7
Lichens from, collected by Edward Palmer, from 1888 to 1892,	A 0 E . 1
list of (Eckfeldt). 1893. p. 291.  Locust invasion of, in 1891, report on (Coquillett). p. 34	A6.5:1 A9.3:27
Lower, plants collected in, by Edward Palmer in 1889, list of	
(Vasey and Rose). 1890, p. 9	A6.5:1
same, in 1890 (Vasey and Rose). 1890. p. 63	A6.5:1
Melanoplus devastator in, dipterous parasite of (Coquillett). 1892.	A9.7:5
Molossus from, description of new species (Merriam). 1890. p. 31.	
Northwestern, stock ranges of, notes on grasses and forage plants	110000
and range conditions (Dayy) 1902	A19.3:12
Phylloxera in (Hilgard). 1892. p. 155.	A1.8:20
Plants worth trying in (Behr and Klee). 1892. p. 141	A1.8:20
1866. p. 224	A1.1:866
1867. p. 56	A27.9:5
1868. p. 26	
1869. p. 58	A27.9:7 A29.6:30
Rainfall in 1860–72. p. 40	A27.9:11
Rainfall in, 1860–72. p. 40.  Rainy season in, 1860–69. p. 481.	A27.9:8
Red scale of—	
hymenopterous parasites of (Howard). 1894. p. 227	A9.7:0
various methods for destroying (Coquillett). 1890. p. 9 Road improvement in, extract from governor's message (Budd).	A9.3:22
p. 1	A22.4:33
p. 1 Scale insect from, new (Coquillett). 1891. p. 382.	A9.7:3
Scale insects and their enemies in (Smith). 1896. p. 46	A9.6:6

	Classification I
California—Continued Scale insects of orange in, and particularly icerya or fluted scale, alias white scale, alias cottony-cushion scale, etc. (Riley).	AO 2.15
Scale insects of, report for 1891 (Coquillett). p. 13 Shells, land and fresh-water, collected in, by Death Valley Ex-	A9.3:15 A9.3:26
pedition (Stearns). 1893. p. 269 Silk culture in, letter on (Prevost). 1867. p. 285 Soil characteristics of (Irish). 1895. p. 475 Soils of (Hilgard). p. 476	A1.10:895
Southern—	
agricultural experiment farm, sunshine at (Henry). 1896. p. 237. bat, free-tailed, from desert region of, description of new spe-	A29.6:24
cies of (Merriam). 1889. p. 23birds observed in, by Death Valley Expedition of 1891, notes	A5.5:2
on (Fisher). 1893. p. 7	A5.5:7
p. 345.  fishes of Death Valley Expedition, 1891, collected in, report	A5.5:7
on, with descriptions of new species (Gilbert). 1893. p. 229	Λ5.5:7
frosts in, their prediction and prevention (Abbe). 1895. pp. 341, 464	A29.6:23
1890	A6.2:N821
plants collected in, by Edward Palmer in 1888, list of (Vasey	
and Rose). 1890. p. 1	A6.5:1 A5.5:2
of (Merriam). 1883. p. 285	A5.5:7 A29.3:18
Sunstroke in (Phillips). 1896. p. 454	A1.1:872
Tea culture in. 1870. p. 38	A27.9:8 A29.6:26
Tortricid from, description of new (Walsingham). 1891. p. 465 Vegetables from, transportation rates on. 1883. No. 59. p. 45 Vine disease, preliminary report of investigations (Pierce). 1892.	A27.9:21
Viticulture, quarantine rules. 1881. p. 166	A1.8:20 A1.8:22
same. 1882. p. 99. Wine growing in. 1868. p. 280. Wines and brandies of (Hilgard). 1882. p. 109.	A1.8:20 A27.9:6 A1.8:20
Wines of, notes on. 1865. No. 2. p. 14	A27.9:3 A27.9:5
Wool-growing in. 1854-74. p. 248. Woolly aphis remedies, note on. 1886. p. 43. Yucca whipplei in, pollination of (Coquillett). 1893. p. 311	A9.3:12
See also Alvarado — Bakersfield — Cache Creek — Folsom — Fresno — Gage Canal — Hanford — Honey Lake Basin —	
Imperial — Kings River — Los Angeles County Horticultural Commission — Los Angeles River — Mendocino County — Napa County — Oakland — Riverside — Sacramento — Sacra-	
mento County — Salinas Valley, Monterey County — San Bernardino — San Diego — San Francisco — San Gabriel —	
San Jacinto River—San Joaquin—San Joaquin River—Santa Ana—Santa Barbara—Sausalito—Shasta, Mount—Sierra Nevada Mountains—Solano County—Sweetwater	
River — Tamalpais, Mount — Tule River Basin — Ventura — West Berkeley — Yuba County — Yuba River.	
California Agricultural Experiment Station, nutrition investigations at, 1896–1898. (Jaffa)	A10.3:84 A10.3:107
·, ····· · · · · · · · · · · · · · · ·	

	Classification no
California, Gulf of:  Head of, list of plants collected by Edward Palmert, in 1889  (Vaccy and Rose) 1890 p. 27	A& 5:1
(Vasey and Rose). 1890. p. 27. Storm, great, of Oct., 1896 [1895], in (Abbe). 1895. p. 379 Callender, C. W. Potato raising in Tennessee. p. 657	A29.6:23 A1.1:880
Calorimeter. See Respiration calorimeter. Calorimetric determination of heating value of corn (Richards).	110040
1898. p. 95 Calothysanis amaturaria, a geometrid moth, life history of (Packard).	A10.3:49
1892. p. 382  Calumet plantation sugar experiment station, Pattersonville, La.,	A9.7:4
record of experiments at (Edson). 1889	A7.3:23 A7.3:37
Searchlight for weather signals. 1898. p. 58	А29.6:26
how it disseminates forecasts and warnings. 1896. p. xxii relation of, to Department of Agriculture. 1899. p. 54 Weather map—	
daily, development of. 1899. p. 144 is it appreciated and understood by the masses? would not	A29.3:24
postal card weather forecast prove satisfactory substitute for map? 1899. p. 100	A29.3:24
temperatures, report on, 1899. p. 55. Calvert, J. C. See, as joint author, Kastle, Joseph Hoeing—	A29.6:27
Marvin, Paul. Calvert, S. See, as joint author, Gibson, H. B. Calvert County, Md., soil survey of (Bonsteel and Burke). p.147	A 98 5-0001
Calves:	
Cost of raising (Langworthy). 1899. p. 21  Fattening, supplements to skim milk in. 1899. p. 21	A1.9:107 A1.9:92
Feeding, with milk of tuberculous cows (Wilcox). 1899. p. 23.	A1.9:107
Parasitic bronchitis among (Trumbower). p. 465	
Raising on plains (Rust). p. 177	A4.1:886
Verminous bronchitis in, and its treatment by tracheal injections.	A1.1:885
p. 554	A4.1:885
Young, diseases of (Law). p. 267	A4.2:C29 <sup>2</sup>
Cameron, Frank Kenneth:	
Carbonates and bicarbonates in aqueous solution, estimation of. 1901. p. 77	A26.3:18
Gypsum, solubility of, in aqueous solutions of sodium chloride. 1901. p. 25	A26.3:18
Sodium carbonate, or black alkali—	A 1 0.71
formation of, by plants. 1902. p. 61 resistance to, by certain plants. 1902. p. 71	
alkali lands. 1901	A26.3:17 A26.5:900 <sup>1</sup>
same. 1899. p. 141  See also, as joint author, De Schweinitz, Emil Alexander— Kearney, Thomas Henry.	A1.8:64
Cameron, Frank Kenneth, and Briggs, Lyman James. Carbonates and bicarbonates in aqueous solution, equilibrium between.	
1901. p. 9. Cameron, Frank Kenneth, and Seidell, Atherton:	A26.3:18
Calcium carbonate, solubility of, in aqueous solutions of certain electrolytes in equilibrium with atmospheric air. 1901. p. 58. Gypsum, solubility of, in aqueous solutions of certain electrolytes.	A26.3:18
1901. p. 46	A26.3:18
p. 45. Campbell, George W. Grape, improvement by hybridizing, cross-	A22.3:21
breeding, and seedlings. p. 209	A1.1:862

<b>T</b> 1	n	de	81	
_		_		

	Classification no.
Campbell, Samuel W. Live-stock industry, condition of, of Wiscon-	
sin. p. 321 Campbell-Hepworth, M. W. See Hepworth.	A4.1:889–90
Camphor barometer, notes on (Abbe). 1899. p. 255	A29.6:27
Camphor tree, circular on (Dewey)	
Canada:	
Agricultural products of, 1865. No. 9. p. 18.  Agricultural statistics of, 1884. No. 4. p. 40.	A27.9:3
American cattle in, restrictions on. p. 455	A4.1:884
Barometry of (Bigelow). 1902.	A29.1:901 <sup>2</sup>
Climatological data for, notes on ('Abbe). 1899. p. 253	A29.6:27
Farmers' institutes in, history and status (Bailey). 1900	A10.3:79
Grasses of U. S. and British America (Vasey). 1892. p. 1	A6.5:3
1891. p. 247	A9.7:3
1891. p. 247 1892 (Fletcher). p. 124	A9.7:5
1900 (Fletcher). p. 94	A9.6:26
Laws of, relative to restriction of plant diseases (Smith). 1896 Live-stock shipments from, to England. p. 77	
Maple sugar in, production of (Hough). 1884. p. 394.	
Markets for American products in. 1895	A12.3:4
Meteorological service of (Stupart). 1899. p. 204	A29.6:27
same, Pacific coast division (Abbe). 1899. pp. 102, 212	A29.6:27
Navigation in, opening of (Abbe). 1897. p. 63	A29.6:25
p. 11	A10.3:96
p. 11 Reciprocity treaty with, note on. 1866. pp. 16, 144	A27.9:4
Silos and ensilage, record of practical tests in. 1882	A1.6:48
Statistics of. 1890. p. 394.  Tineina of U. S. and, steps toward revision of Chambers's index	A27.9:28
of. See Walsingham, Lord.	
Weather forecasting in, long range (Gun). 1899. p. 149	A29.6:27
See also Dairying — Manitoba — Toronto.	
Canada thistle:	A & A .97
Circular on (Dewey)	A0.4:27 A27.9:7
Canadian-British cattle trade:	•
Decrease in (Beutelspacher). p. 515	A4.1:899
Canadian cattle: From port of Boston, Mass., correspondence with S. W. Aller-	
ton concerning exportation of. Dec. 28, 1896	A1.2:C29 8
Importation of, for exhibition at Pan-American Exposition, Buf-	
falo, N. Y., order providing for. 1900	A4.5:65
Providing additional ports of export for, in bond. 1899	A4.5:44
Canadian cattle, sheep, and swine, special order relative to importation of, for exhibition at International Live-Stock Exhibi-	
tion. Chicago—	
July 13, 1900	
Sept. 12, 1901 July 16, 1902	
Canadian field peas (Shaw). 1895. p. 223	A1.10:895
Canadian northwest irrigation act, water rights under (Dennis).	
1901. p. 11	
Canaigre, reports on	A10.4:25
Logan and Richmond Canal — Mississippi River.	
Cane juices and sirups, brown coal and wood char in filtration of	
(Thompson). p. 268	A1.1:887
Same. 1889. p. 99	A7.3:17
Determination of, in presence of commercial glucose (Weber and	
	A7.3:43
McPherson). 1894. p. 126. Industry in U. S., condition and prospects of. 1877	A1.6:1
same. p. 23	A1.Z:AN7 * A1 1.977
seut. p. 20	A1.1.011

Index	Classification no.
Cane sugar—Continued	CIMPATHEMICALISM NO.
Products of manufactories, incinerated with sulphuric acid, report on true ash in (Biard). 1891. p. 77	A7.3:31
Nee also bugar.	
Canes. See "Gran cultura"— Orange sorghum cane. Canker worms:	
Circular relative to (Coquillett). 1895	A9.5:9
Entomological Commission, report on 1883, p. 157	A8.1:3
Fall, observations on banding of trees to prevent injury by (Britton). 1901. p. 160.  Notes upon (Hargitt). 1890. p. 8	
(Britton). 1901. p. 160	A10.3:99
Spring, experience with (Howell). 1883. App. p. 82	A9.7:3 A8.1:3
Canned meats, chemical examination of (Wiley). 1899	A7.4:5
Canned vegetables. See Vegetables.	
Canning industry, note on—	A 07 O 07
1889. p. 29 1890. p. 33	A27.9:27 A27.9:29
1891. p. 666	
1893. p. 46	A27.9:31
	A27.9:32
Cannon, Minna A. See, as joint author, Handy, Robert Brecken-ridge.	
Cannonading, prevention of hail by (Abbe), 1900, p. 251	A29.6:28
Cannonading, prevention of hail by (Abbe). 1900. p. 251	A7.3:24
Canterbury, New Zealand, nor'westers of (Abbe). 1895. p. 383	A29.6:23
Cape Colony: Locusts in. 1879. App. p. 68	A8.1:3
Prices in (Stowe). p. 523.	
Sheep and wool in (Roberts). p. 522	A4.1:898
Cape May, N. J., waterspout at. 1902. p. 487	A29.6:30
Capillary studies and filtration of clay from soil solutions. 1902 Caprifig experiments in California, present status of (Howard). 1899.	A26.3:19
p. 28	A9.6:20
Caprifig wasp. See Blastophaga psenes.	
Capron, Horace:	
Address of— at Illinois State Agricultural Society Fair, Decatur, Sept., 1870.	
p. 420	A27.9:8
before "Congress of Cotton States," Augusta, Ga., Oct., 1870.	
p. 473 before Montgomery County (Md.) Agricultural Society. 1870.	A27.9:8
p. 351	A27.9:8
p. 351 Beet sugar, production of. 1868. p. 59	A27.9:6
[Also issued as 40th Cong., 2d sess., H. mis. doc. no. 84; serial no. 1349.]	
Farmers of France, circular offering aid to. 1871. p. 65	
Japan, agriculture in. p. 364.	A1.1:873
Resignation of, as Commissioner of Agriculture and appointment of his successor, Frederick Watts. 1871. p. 255	A27.9:9
See also, for reports as Commissioner of Agriculture, 1867–1870	A1.1:
Carabid malodorous, Nomius pygmæus, dej, notes on (Barrows).	1000
1897. p. 49	A9.6:9
Character of, abstract of paper on (Wohl). 1890. p. 134	A7.3:28
Fiber in substances rich in, report of committee on estimation of.	
1891. p. 63	A7.3:31
' See also Cattle foods.	A10.3:34
Carbon, metabolism of, in human organism, with respiration calorim-	
eter of special construction, report of preliminary investigations	
on (Atwater and others). 1897.	A10.3:44
Carbon bisulphid: As an insecticide (Smith). 1894. p. 108	A9.7-7
As an insecticide (Hinds). 1902.	A1.9:145
For crayfish (Weed). 1895. p. 98	A9.6:2
Fumigation with (Du Buysson). 1893. p. 159.	A9.7:6
same (Hinds). 1901. p. 78	VA'0:20

	Classification no.
Carbon bisulphid—Continued	40431
Seed treated with, vitality of (Hicks and Dabney)	A6.4:11
Carbonates and bicarbonates in aqueous solution:	
Equilibrium between (Cameron and Briggs). 1901. p. 9 Estimation of (Cameron). 1901. p. 77	A26.3.18
Carbonation. See Diffusion and carbonation.	A20.3.16
Carbonic acid:	
Liberation of, by respiration and perspiration of various animals (McMurtrie) 1875 p. 311	A27.9:13
(McMurtrie). 1875. p. 311	
(Wiley). 1886  Carbonic-acid gas in atmosphere (Abbe). 1895. p. 300  Carcasses of pigs chemical composition of (Wiley and others). 1898.	A7.3:8
Carcasses of pigs, chemical composition of (Wiley and others). 1898.	A29.6:23 A7.3:53
Card. F. W. Educational status of horticulture, report on. 1901.	
p. 134. Caribbean Sea, northers in, notes on (Abbe). 1898. p. 568	A10.3:99
Carleton, Mark Alfred:	A28.0.20
Cereal rusts of U.S., a physiological investigation. 1899	A28.3:16
Cereals and forage plants collected in Russia by, for section of seed and plant introduction, Agriculture Department. 1899	AR R-4
Emmer, a grain for semiarid regions. 1901.	A1.9:139 ·
Macaroni wheats. 1901	A19.3:3
Plants, native, of Oklahoma Territory and adjacent districts, observations on. 1892. p. 220	A6.5:1
Russian cereals adapted for cultivation in U.S. 1900	A6.3:23
Wheat culture, improvements in. 1896. p. 489	A1.10:896
Wheat industry, new, for semiarid West. 1901	A28.4:18
Wheat industry, new, for semiarid West. 1901	A28.3:24
See also, as collector, Holzinger, J. M. Carlisle, William W.:	
Marvin's weighing rain and snow gauge. 1899. p. 131	A29.3:24
Marvin's weighing rain and snow gauge. 1899. p. 131	A29.3:31
Carman, Ezra A.: Sheep industry in States east of Mississippi River. 1892. p. 11	A4.2:Sh4*
Sheep of Great Britain. p. 145	A4.1:889-90
Carmen Island, plants collected on, by Edward Palmer in 1890, list of (Rose). 1892. p. 129.	AR 5.1
Carnations and other pinks, stigmonose a disease of (Woods). 1900.	A28.3:19
Carolina, port. See Port Carolina.	
Carp (Cyprinus carpio) as an eradicator of fluke disease (Stiles). p. 220	A4.1:901
Carpenter, Ford A.:	
Fog, utilization of, report on. 1899. p. 195	A29.6:27
Carpenter, L. G.:	A29.0.20
Artesian-well investigation, field work in Colorado. 1890. p. 173.	
same, in New Mexico. p. 233	A15.2:A7/
methods of. 1893. p. 142	A10.3:16
statistics and progress in Colorado. 1890. p. 181.	A15.2: P94 <sup>1</sup>
Carpenter, R. C. Bicyclers, mechanical work and efficiency of.  1901. p. 57	A10.3:98
Carpet beetle, or "Buffalo moth":	
Circular relative to (Howard). 1894. Report on (Riley). 1889. p. 127.	A9.5:5
Species injurious to woolen goods, clothing, carpets, upholstery,	110.1.2
etc. (Howard and Marlatt). 1896. p. 58	
Carr, Oma: Seed-selection work at Medicine Lodge, Kansas, résumé of. 1893.	
p. 28. Sorghum-sugar experiments at Attica, Kans. 1889. p. 72	A7.3:40
Sorghum-sugar experiments at Attica, Kans. 1889. p. 72 same, at Medicine Lodge, Kans. 1892. p. 25	A7.3:26 A7.3:37
See also, as collaborator, Wiley, Harvey Washington.	11.0.01
Carr, Oma, and Sanborn, T. F. Liquids, viscous organic, dehydra-	A7 9.47
tion of. 1895. p. 134	M. 6.13

Index	Classification no.
Carrion crows, communication of hog cholers by (Ford). p. 325	A4.1:895-6
1902. p. 35 Carrots, loss of nutrients in boiling (Snyder). 1897. p. 7 Carrow, G. D.:	A29.3:31 A10.3:43
Cattle farming in the Pampas. p. 486. Sheep farming in the Pampas. p. 223.	A1.1:865 A1.1:864
Carse, George B. Florida, climate, soil, productions, and agricultural capabilities. 1882. p. 3	
Earthquakes at, 1875–98 (Friend). p. 61	A29.6:28 A29.6:28
Cary, C. A.: Alabama, farmers' institute work accomplished in. 1902. p. 15. Bacilli, tubercle, growing, for tuberculin. 1898. p. 8	A10.3:120 A4.3:22
Cary area, North Carolina, soil survey of (Coffey and Hearn). p. 311. Carya alba, stomata on, strange developments of, caused by phyllox-	A26.5:901 <sup>1</sup>
era (Owen). 1892. p. 327. Caryopsis of grasses, structure of, with reference to their morphology and classification (Kennedy).	A9.7:4 A3.3:19
Cascade Mountains of Oregon, forest growth and sheep grazing in (Coville). 1898.	A13.3:15
Determination of, in cow's milk (Van Slyke). 1893. p. 109  Estimation of, by method of Kjeldahl (L'Hote). 1889. p. 170  Caseous lymph-adenitis, Ovine, nature, cause, and economic impor-	A7.3:38 A7.3:24
tance of (Norgaard and Mohler). p. 638.  Cashmere goats, wool of. 1867. p. 254.  Cass County, Nebraska, swine-plague in (Hines). 1879. p. 177	A4.1:899 A27.9:5
Cass County, Nebraska, swine-plague in (Hines). 1879. p. 177 Cassava: Starch from, manufacture of (Wiley). 1900	
Sweet, its culture, properties, and uses (Wiley). 1894	A7.3:44
1865. No. 10. p. 16. 1866. p. 287. 1868. p. 93.	A27.9:4
1869. p. 143 Castor oil plant	A27.9:7
Casualties due to lightning (McAdie). p. 510.  Catalase, a new enzym of general occurrence, with special reference to tobacco plant (Loew). 1901.	A29.1:891 * A1.8:68
Catalpa, hardy: Diseases of (Schrenk). 1902. p. 49. In commercial plantations (Hall). 1902.	
Catania, Italy, cost of hauling farm products over wagon roads at	A13.3:37 A22.4:27
(Bruhl). p. 10.  Catarrh. See Epizootic catarrh — Sheep.  Caterpillar:	
Damaging cork tree. 1889. p. 136	A9.7:2 A9.7:1
Cotton caterpillars — Hairy caterpillars — Tent caterpillar. Catron, A. Spanish fever, investigation of. 1868. p. 357 Cattle:	A27.9:6
American— Canadian restrictions on. p. 455 inspection of, in Great Britain. p. 82	A4.1:884 A1.1:890
same, p. 70 Anthrax among. See Anthrax. Argentina, statistics of, 1899 (Jones). p. 515	A4.1:899
same (Salmon). 1902	A4.4:37 A1.1:863
American breeds of, with remarks on pedigrees (Rommel). 1902. conformation of dairy cattle and (Soule). 1902. feeding, in Middle States (Lodge). p. 212.	A1.9:143

	Classification no.
Cattle—Continued	
Beef—Continued	
of the West (Corbett). p. 326.	A1.1:862
pure-bred, Mexico as a market for (Salmon). 1902	A4.3:41
Blackleg among. See Blackleg.	4.4.4.000
Blood of, persistence of Texas fever organism in (Schroeder). p. 42.	A4.1:899
Bones of, diseases and accidents to (Atkinson). p. 281	A4.2:C29
Breeds of, best, adapted for general farmer of Western States	11 7.0
(Baker). p. 95 Bronchitis in (Williams). p. 603	A1.7:2 A11:880
Canadian-British trade in, decrease in (Beutelspacher). p. 515.	A 1 1 · 899
Cestodes of, adult, revision of (Stiles and Hassall). 1893	
Condition of. 1873. p. 143	
same. 1875. p. 155	A27.9:13
Consumption and production of, in Great Britain and Ireland. 1865. No. 7. p. 27.	
1865. No. 7. p. 27.	A27.9:3
Corn, smutty, ill effects on (Gamgee). 1869. p. 78	A1.2:C29 <sup>1</sup>
same, p. 73 Corn smut, is it injurious to? 1898. p. 16	A1.2:C29 <sup>2</sup>
Corn smut, is it injurious to? 1898. p. 16	A1.9:69
Cornstalk disease among. See Cornstalk disease.	
Cutaneous disease among, outbreak of. p. 361	A4.1:889-90
Dairy. See Dairy cattle.	A 07 O.0
Decrease of. 1865. No. 4. p. 13 Dehorning of (Gowell and Russell). p. 489	A27.9:3 A A 1.909
Digestive organs of, diseases of (Murray). p. 15.	A 4 2 · C 20 2
Dipping—	A4.2.020
experimental and practical (Nörgaard). 1898. p. 453	A1.10:898
for destruction of ticks (Nörgaard). p. 109.	A4.1:895-6
Disease among—	
in Marshall County, Kans. (Steddom). p. 382	A4.1:898
in Uruguay (Swalm). p. 385	A4.1:898
not distinguishable from rabies. 1896. p. 71	A4.3:10
outbreak of, in Missouri (Michener). 1891. p. 387	A4.1:889-90
periods of incubation or latency of. 1900. p. 740	A1.10:900
strange (Lenoir). 1879. p. 253.	A1.6:12
Diseased—  Avida of with reference to presence of counterwise arounts	
fluids of, with reference to presence of cryptogamic growths (Billings and Curtis). 1869. p. 174	A 1 9.090 l
same n 158	A1.2:C29 <sup>2</sup>
same, p. 156	A1.2:C29 5
transportation of, letter to railroad and transportation compa-	
	A1.2:R131
Diseases of—	
and cattle feeding. 1892	A4.2:C29 2
contagious, how they are imported and what they cost	
(Gadsden), 1883, p. 49	A1.8:29
correspondence relating to. 1877. p. 455.	A1.1:877
same. 1898. p. 524	
general remarks on (Gamgee). 1869. p. 162	A 1.Z:UZ9 *
in Europe. 1870. p. 435	A41.8:0 A1 9.0901
infectious (Salmon and Smith). p. 371	A 1.2.029 3
statistics of, Great Britain. 1883. No. 6. p. 34	
same. 1871	
See also Diseases of animals.	
Ear of, diseases of (Trumbower). p. 367.	A4.2:C29 <sup>2</sup>
Ergotism among. See Ergotism.	
Export, inspection of, before shipment. p. 83	A1.1:890
same, p. 71  Exportation of, from Boston, prohibition of. 1902	A4.1:889-90
Exportation of, from Boston, prohibition of. 1902	A4.5:100
Exportation of, in vessels carrying hides from foreign countries.	1 . E.01
orders concerning. 1900	A4.5:61
Eye of, and its appendages, diseases of (Trumbower). p. 353	A4.ZX 29*
same 1867 n 157	A27.871 A27.0.5
Fattening of, results of. 1863. No. 5. p. 5. same, 1867. p. 157 Feed, coarse, necessity of, to grow (Davenport). p. 202.	A4.1.897
Feeding and management of (Henry). p. 439	A4.2:C29 <sup>2</sup>

	('lassification :
Cattle—Continued	
Texas fever of. See Texas fever.	
Texas itch among, in Kansas (Mayo). p. 488	A4.1:898
Thelemark, of Norway. 1876. p. 432	A27.9:14
Transportation of, regulations concerning.	A4.5:
Tuberculosis among. See Bovine tuberculosis—Tuberculosis.	
Tumors of (Lowe). p. 321 Urinary organs of, diseases of (Law). p. 137	A4.2:C29*
Urinary organs of, diseases of (Law). p. 137	A4:1:C29*
Venezuelan, shipments of, to Cuba (Ellsworth). p. 516	
Verminous diseases of, in Texas (Stiles). p. 356 same, further investigations (Stiles). p. 223	
Wisconsin trade in (Perry). p. 125	
. See also Animal industries — Animal Industry Bureau — Ani-	214.1.000
mals—Anthrax—Ayrshire cattle—Beef—Beeves—Black-	
leg—Bovines—California—Calves—Canadian cattle—Chan-	
nel Islands — Colorado — Cornstalk disease — Cows — "Cream	
pot" stock—Dairy cattle—Dairy herd—Diseases of ani-	
mals—Ergotism—Farm animals—Foot-and-mouth disease—	
Guernsey cattle — Holstein cattle — Jaques "cream pot"	
stock — Kerry breed of cattle — Livestock — Lumpy-jaw —	
Pleuropneumonia—Southern cattle fever—Spanish fever—	
Steers — Texas — Texas fever — Thelemark cattle — Tuber-	
culosis — and headings beginning Cattle.	
Cattle and cattle products of Argentine Republic, some statistics of 1899 (Jones). p. 515	A4.1:899
Cattle breeders. See Chicago, Ill., National Convention of Cattle-	A7.1.000
breeders.	
Cattle breeders' associations, list of, with officers—	
1898. p. 613	A1.10:898
1899. p. 691	A1.10:899
1900. p. 645	
1901. p. 624	A1.10:901
Cattle farming in the Pampas (Carrow). p. 486	A1.1:865
Cattle farms, great. 1888. p. 233	A27.9:26
Cattle foods or feeding stuffs, analysis of:	
Notes on (Huston). 1890. p. 90.	A7.3:28
Report of committee on, of Association of Official Agricultural Chemists—	
1887. p. 8	A7 3.18
1888. p. 6	A7.3:19
1889. p. 15	A7.3:24
1890. p. 79	
1891. low in carbohydrates. p. 34.	
1891. rich in carbohydrates. p. 45	A7.3:31
1892. low in carbohydrates. pp. 114, 127	A7.3:35
1893. p. 122	A7.3:38
1894. p. 157	
1895. p. 24	
1896. p. 46	
1897. p. 89 1898. p. 69	
1899. p. 91	
1900. p. 101	
1901. p. 44	A7.3:67
Cattle foods:	
	A1.1:865
Comparative value of. p. 408	A1.9:144
Work in, communications from foreign chemists taking part in	
(Fassbender). 1894. p. 170	A7.3:43
See also Cattle, feeding of — Fodder.	
Cattle Growers' Association, National. See Kansas City, Mo.	
Cattle industry:	
Address on, at National Convention of Cattle Breeders, Chicago,	A1 7.0
California (Margar) v 930	A 1.(10 A 4 1.000
Ill., Nov. 13, 1884 (Loring). California (Mercer). p. 239. Colorado, Wyoming, and Nevada, in 1897 (McNeely). p. 377	A4 1 · RQR
Mexican (Griffith). p. 503	A4.1:900
ravarium ( ~ ramon, ' P. 000	

	Index Classification no.
Cattle industry—Continued	
Report on (Grinnell). 1883. p. 232.	A1.7:2
United States (Wilson). p. 267.  Cattle interests of West (Fullinwider). p. 271	A4.1:901
Cattle interests of West (Fullinwider). p. 271	A4.1:884
Cattle interests west of Mississippi River, condition of: 1884 (Grinnell). p. 233	A.4. 1 · 884
1885 (Bradley). p. 424	A4.1:885
1887 (Taylor). p. 306	A4.1:887-8
Cattle orders, including special orders; regulations, notices, etc., re-	
lating to cattle transportation, quarantine, etc., 1895 to date	A4.5:
Cattle plague or rinderpest:  Cattle traffic in relation to (Law). p. 110	A1 7:2
Character of, etc. 1865. No. 7. p. 16	A27.9:3
Dry or salted hides, opinion relative to transmission through	
(Law). p. 321	A1.1:876
Europe, 1865–6 (Dodge). p. 550 same, 1870. p. 155	A1.1:865
Great Britain. 1865. No. 8. p. 20	A27.9:3
History of. p. 472	A1.1:879
same. 1880. p. 185	A1.6:22
Inoculation for. 1872. p. 149.	A27.9:10
International council on. 1872. p. 229.  Legislation necessary against. 1866. p. 174.	A27.9:10 A97 Q:4
Notes on—	A21.0.2
1865. No. 9, p. 20; No. 10, p. 27	A27.9:3
1866. pp. 56, 127	A27.9:4
1868. p. 186	A27.9:6
Statistics of, in Great Britain. 1866. p. 432.	A27.9:4
Symptoms of (Gadsden) 1879. p. 255. Vaccination for, Russian official experiments in. 1866. p. 235.	A27.9:4
Cattle-range industry, condition of (Taylor). p. 105.	
Cattle ranges of Southwest; history of exhaustion of pasturage and	
suggestions for its restoration (Bentley). 1898.	A1.9:72
Cattle show of Smithfield club, notes on (Rogers). p. 326	A4.1:895-6
Cattlemen, interstate convention of. See Fort Worth, Tex.	
Caucasus, Russia, agriculture in the. 1893. p. 202	A27.9:31
Candell, A. N. Colorado insects, notes on. 1902. p. 35	A9.6:38
Causse, H. Sugar, estimation of, by Fehling's solution. 1890. p.	4 = 0 00
Cavalry horses in America (Morris). p. 159.	A7.3:28
Caves, ice (Abbe). 1901. p. 71.	A1.1.605 A29.6:29
Cecidomyiid:	1120.0.20
Injurious to seeds of sorghum (Coquillett). 1898. p. 81	
That lives on poison oak (Coquillett). 1895. p. 348.	
Two new, destructive to buds of roses (Coquillett). 1900. p. 44. Cecil County, Md., soil survey of (Dorsey and Bonsteel). p. 103	A9.0:22
Cedar bird, food habits of (Beal). p. 192	A1.1:892
Same, p. 192	A5.1:892
Cedar Falls, Iowa, sorghum-sugar experiments at (Wiley). 1889.	
p. 12	A7.3:26
Same (Bozarth). p. 57 Cedros Island, Mexico, list of plants collected by Edward Palmer at,	A7.3:20
in 1889 (Vasey and Rose). 1890. p. 13	A6.5:1
Celery culture:	
At Kalamazoo, Mich. (Little). p. 343	A1.1:886
Report on (Beattie). 1902	A1.9:148
Cellulose in plants and animals (Taylor). 1875. p. 316	A1.9:133 A27.9:13
Same. 1876. p. 196.	A27.9:14
Census:	
Austria, agricultural. 1865. No. 6. p. 18	A27.9:3
Belgium, agricultural. 1885. No. 24. p. 37. Eleventh, of U.S., agricultural statistics of, discussion of (Hyde).	A27.9:23
1896. p. 12	A4.3:11
Centinedes:	
House, circular on (Marlatt). 1902.	A9.5:48
017	

	Classification no.
Centipedes—Continued	
Report on. 1894. p. 260	A9.7:7
	A9.6:4.
Central America:	
Coffee, disease of, danger of introducing into Hawaii (Swingle).	A28.4:16
Cotton crop and its enemies in, consular reports on. 1885. App.	A20.4:10
	A8.1:4
p. 59 Earthquakes in, notes on (Abbe). 1898. p. 365.	A29.6:26
Plants of, studies of (Rose). 1897. p. 103	A6.5:5
Central Park, New York City, entomological work in (Southwick).	
1891. p. 59	A9.7:4
Central West. New West.	
Centrifugal dairy. See Deerfoot farm. Centrifugal force. See Mechanical analysis.	1
Century, meteorological, note on (Abbe). 1900. p. 591	A 90 R-97
Cercospora circumscissa:	A20.0.21
Almond disease caused by, remedies for (Pierce). 1891. p. 232	A28.5:7
Treatment of, suggestions in regard to (Galloway). 1891. p. 77.	A28.5:7
Cereal breakfast foods, study of (Langworthy). 1899. p. 19	A1.9:105
Cereal crops:	
Austrian. 1893. p. 270.	A27.9:32
Austro-Hungary, value of (Neumann-Spallert). 1883. No. 64.	A 07 O 01
p. 66. Circular on. 1896	A27.9:21
English. 1868. p. 148. Insects affecting, report on some (Webster). 1890. p. 63	A9.3:23
See also Cereals.	120.0.20
Japanese. 1893. p. 270	A27.9:32
See also Farm products — Grain.	
Cereals:	
Adulteration of cereal products and (Wiley and others). 1898.	A 77 O . 1 O 9
p. 1169 American, wheat, oats, barley, and rye, chemical composition	A7.3:13*
and physical properties of, third report on (Richardson).	
1886	A7.3:9
Area and production of, grown in 1879	A1.8:23
Collected at World's Columbian Exposition, analyses of, and	
comparisons with other data (Wiley). 1895	A7.3:45
Collected in Russia by M. A. Carleton, for section of seed and	100
plant introduction, Agriculture Department. 1899	
Consumption of, in Europe, 1885. No. 16	A27.8:
Crops of. See Cereal crops.	1121.0.20
Estimated production of, of U. S., 1881. No. 41	A27.9:20
Estimates of, of 1882. No. 59	A27.9:21
Exports of, 1866. p. 432	
Geographic distribution of, in North America, Jan. 4, 1897	
same, Mar. 1, 1897 same (Plumb). 1898	A5.4:22
Growing, ortalid fly injuring. 1895. p. 352	AQ 7 7
Improvement of (Blount). 1882. p. 104	
Insects affecting—	
destruction of. 1867. p. 158.	A27.9:5
other dry vegetable foods and, report on (Chittenden). 1896.	
p. 112  Production and distribution of, in U. S. (Dodge). 1879  Production of in Germany 1876 p. 367	A9.6:4
Production and distribution of, in U. S. (Dodge). 1879	A27.2:C33
Production of, in Germany. 1876. p. 367	A27.8.14
adapted for cultivation in U.S. (Carleton). 1900	A6.3:23
adapted for cultivation in U. S. (Carleton). 1900 official returns of. 1891. p. 474	A27.9:29
Rusts affecting—	
experiments in treatment of (Galloway). 1891. p. 195	A28.5:7
physiological investigation (Carleton). 1899	<sup>1</sup> A28.3:16
Smut in, prevention of (Kellerman and Swingle). 1891. p. 26	A28.5:6
Stored, and other products in Mexico, insects affecting (Chittender) 1896 p. 27	AQ Q.4
den). 1896. p. 27	1 A0.0.4

	Classification no.
Cereals—Continued	
Statistics of, annual	A27.1:
Tariff rates on, in European countries, 1894. p. 323	A27.9:32
Variety testing in; how can it be rendered more decisive? (Hickman). 1891. p. 97.	A10.3:7
See also Grain, and references thereunder.	A10.0.1
Cereals and cereal products, adulteration of (Wiley and others).	
1898. p. 1169.	A7.3:13*
Cerebro-spinal meningitis. See Horses.	
Cereus, North American species of, preliminary revision of (Coulter).	A @ K . O
1896. p. 355	A6.5:3
p. 71	A6.3:2
Cestodes:	
Adult—	
of cattle, sheep, and allied animals, revision of (Stiles and	1.40.4
Hassall). 1893	A4.3:4
of man which may possibly occur in returning American troops (Stiles and Tayler). 1902. p. 43	A4.3:35
Larval, of man which may possibly occur in returning American	114.0.00
troops (Stiles and Tayler). 1902. p. 47	A4.3:35
See also Tapeworms.	
Chætochloa, North American species of (Scribner and Merrill). 1900.	A3.3:21
Chaffee, Frank P.:	
Meteorology in public schools; how much should be attempted;	A 90 2.21
methods of teaching. 1902. p. 85.  Weather-forecast distribution: should the wording of forecasts be	A20.0.01
confined to vocabulary of present logotype outfit? is it ad-	
visable to extend vocabulary of logotype outfit? 1889. p. 48.	A29.3:24
Weather forecasts, stamping, on mail matter, report of committee	
appointed to investigate subject of. 1896. p. 51	<b>A29</b> .3:18
Weather map, how to make synopsis instructive to public. 1902.	A29.3:31
p. 137 Yerby, M. H., short biography of. 1900. p. 539	A29.6:28
Chagres River:	1120.0.20
Ratio of discharges of, to rainfall (Abbot). 1899. p. 541	A29.6:27
Upper, rainfall and drainage in (Abbot). 1900. p. 243	
Chalcididæ:	
North American, from collections of Department of Agriculture and of C. V. Riley, descriptions of, with biological notes, and	
list of described North American species of family (Howard).	
1885	A9.3:5
Pupation among, methods of (Howard). 1891. p. 193	A9.7:4
See also Aphelininse.	
Chamberlain, W. J. Crop reports, national and international, paper	A 1 0.00
on. 1882. p. 137	A1.8:22
Walsingham, Lord.	
Champaign, Ill.:	
Swine plague at (Detmers). 1879. p. 19	A1.6:12
Texas cattle fever investigations in (Detmers). 1880. p. 291	A1.6:34
Chance, Edward Mackay. See, as collaborator, Bigelow, Willard Dell. Chancellor, Charles Williams. Havre, France, cost of hauling farm	
products over wagon roads at. p. 3	A22.4:27
Chandler, A. E. Duty of water in Tule River Basin, California.	1122. 1.21
1902. p. 159	A10.3:119
Chandler, A. J. Anthrax and southern cattle fever among Cali-	
fornia cattle. p. 450	A4.1:887-8
Chandler, William Eaton. Address of, before convention of National League for Good Roads, Washington. 1893. p. 15	A 10 9.14
Changa or mole cricket in Porto Rico (Barrett). 1902	A10.3:14 A10.12:2
Channel Islands: the people and their cattle (Hazard). p. 77	A1.8:22
Chappel, George M. Weather-forecast distribution: should word-	
ing of forecasts be confined to vocabulary of present logotype	
outfit? Is it advisable to extend vocabulary of logotype out-	100 0 01
fit? 1899. p. 49	AZ9.3:Z4
Char. See Wood char.	ı

	Classification no.
Charbon. See Anthrax.	
Charles, Vera K. See, as joint author, Pieters, Adrian John.	
Charleston, S. C., hurricanes at, notes on, 1752–1893 (Abbe). 1901.	1 00 0 00
p. 548. Charlottesville, Va.:	A29.6:28
Grapevine, downy mildew and black rot of, treatment of, with	
salts of copper at, in 1887 (Lyman). p. 5	A6 3.5
same, 1888 (Lyman). p. 20	A6.3:10
same, 1888 (Lyman). p. 20 San José scale at (Schwarz). 1894. p. 247	A9.7:6
Jefferson Memorial and Interstate good-roads convention, letter	
of invitation and official call to. 1902	A22.2:C38
Charpentier de Cossigny, M. J.:	
Agricultural hydraulics; translated by Mrs. A. F. Wood. 1891.	1 12 O T. 73
pt. 1. p. 349	A15.2:Ir7 <sup>2</sup>
Charts of atmosphere humidity, notes on (Abbe). 1901. p. 118	A29.6:29
Chauveau, A. B. Electricity, atmospheric, methods and instruments	A20.U.23
of precision for study of. 1895. p. 569.	A29.3:11 <sup>2</sup>
Chauzit, B. Grapevine, downy mildew of, treatment for, in France	
in 1887. p. 75.	A6.3:5
Chavez, Augustin M., short biography of. 1902. p. 451	A29.6:30
Chayote; a tropical vegetable (Cook). 1901	A6.3:28
Cheat. See Chess.	
Cheese:	A 4 1.990 00
American, deterioration of. p. 384  Bacteria cultures, pure, for making. p. 26	
Colored spots in (Pearson). p. 229	A4.1:898
same	A4.4:24
Cream in, substitute for, 1874, p. 536	A27.9:12
Curd inflation; its relation to bacterial flora of foremilk (Bolley).	
Curd inflation; its relation to bacterial flora of foremilk (Bolley). 1896. p. 78  Curd test in making. 1898. p. 24	A10.3:30
Curd test in making. 1898. p. 24.	A1.9:84
Curing of. 1901. p. 27	A1.9:144
Curing rooms, construction and cooling of. 1899. p. 19	
Factory for, and how it is made (Merry). 1896. p. 45	A4.3:15
same, reprinted. n. d Fat in, determination of (Van Slyke). 1893. p. 116	A7.3:38
Good, how to select (Alvord). 1896	A4.4:11
Industry of State of New York (Gilbert). 1896	
Insects affecting (Howard). 1896. p. 100	A9.6:4
Making at high altitudes in France. 1875. p. 127	A27.9:13
Manufacture and consumption of (Alvord). 1895. p. 453	A1.10:895
Manufacture of, as a staple article of export (Goodale). p. 381	A1:1:863
Market for, in England (Ashby). p. 214.  National standard for (Eberman). 1893. p. 60.	A4.1:099 A7 Q:41
Qleomargarine. 1874–75. p. 459.	A27 9-13
Production of, information relative to (Curtis). 1870. p. 355	A27.9:8
Production statistics of butter and. 1873. p. 279.	A27.9:11
Roquefort, manufacture of. 1868. p. 40	A27.9:6
Skipper (Murtfeldt). 1893. p. 170	A9.7:6
Small, note on. 1876. p. 111	A27.9:14
See also Casein — Filled cheese — New York State Cheese Manufacturers' Association.	
Chemical analysis:	
Agricultural, explanation of some new forms of apparatus used	
in (Wiley). 1890. p. 96	A7.3:28
in (Wiley). 1890. p. 96	A7.2:Oi5
same (Tolman). 1902. p. 20	A7.3:65
Grapes (Wetherill). 1862	A1.8:3
Methods of, of commercial fertilizers, feeding stuffs, dairy prod-	
ucts, and fermented liquors, adopted by Association of	
Official Agricultural Chemists—	A7 2.7
2d annual convention, 1885	A7 3·12
4th annual convention, 1887. p. 59.	A7.3:16
5th annual convention, 1888. p. 57.	
6th annual convention, 1889	A7.3:24
,	

	Index
Chamical analysis—Continued	Classification no.
Chemical analysis—Continued  Methods of, etc.—Continued	
7th annual convention, 1890. p. 189	A7.3:28
8th annual convention, 1891. p. 179	A7.3:31
9th annual convention, 1892. p. 195	A7.3:30 A7.3:38
11th annual convention, 1894. p. 341	A7.3:43
12th annual convention, 1895, edited by Harvey W. Wiley,	
with collaboration of L. L. Van Slyke and W. D. Bigelow.	A7.3:46 <sup>1</sup>
15th annual convention, 1898, edited by Harvey W. Wiley changes and additions, Dec. 12, 1896	A7.3:40 - A7.4:2
changes and additions, Dec. 11, 1897	A7.4:4
outline of. 1901	A7.4:7
provisional methods, at 18th annual convention, 1901, edited	A7.3:65
by Harvey W. Wiley, with collaboration of W. D. Bigelow. See also Tanning materials.	A7.5.00
Proximate, notes on (McMurtrie). 1873. p. 167	A27.9:11
See also Alkali soils — Cattle foods — Food materials — Fort Scott—	
Fruits — Fungicides — Insecticides — Plants — Soils.	
Chemical exhibit. See Chicago, Ill., World's Columbian Exposition. Chemical fertilizers. See Fertilizers.	
Chemical measuring flasks, testing of, notice in regard to. 1897. p. 159.	A7.3:51
Chemical memoranda on agricultural subjects, monthly, NovDec.,	
1871. p. 480 Same (Smith), Jan., 1872; (Brown), FebDec., 1872	A27.9:9
Same (McMurtrie), Jan., 1873, to Dec., 1876	A27.9:11-14
Chemical Society, national, committee on, of Association of Official	
Agriculturist Chemists, report of—	A 77 10 000
1890. p. 182	A7.3:28
Chemicals, weed destruction by means of (Evans). 1901. p. 19	A1.9:124
See also Enzymes.	
Chemistry:	
Abstracts of reports of agricultural experiment stations on. 1889-1902	A10.6:
For technical and practical students (Huston). 1896. p. 88	A10.3:41
Relation of, to progress of agriculture (Wiley). p. 201	A1.10:899
See also Agricultural chemistry — Alkali — Cotton.	
Chemistry and economy of food, methods and results of investigations on (Atwater). 1895	A10.3:21
Chemistry section, Association of American Agricultural Colleges	
and Experiment Stations, report of:	410 - 0
1890, pp. 23, 108, 132 1891, p. 20	A10.5:3
1892, p. 36	A10.3:16
See also Agriculture and chemistry section.	
Chemistry Bureau, Agriculture Department:	A7.
Exhibit of, at Pan-American Exposition, Buffalo, N. Y., 1901 (Ewell and others). 1901	A7.3:63
Publications of. 1899	A7.2:P96
Work of, for farmer (Wiley). 1897. p. 76	A1.10:897
Chemists, Official Agricultural, Association of:	   A7 Q.57
Historical sketch of (Wiley). 1899. p. 16. 2d annual convention, 1885, proceedings of, edited by Charles	A7.0.07
W. Dabney	A7.3:7
3d annual convention, 1886, proceedings of, edited by Clifford	170.70
Richardson 4th annual convention, 1887, proceedings of, edited by Clifford	A7.3:12
Richardson	A7.3:16
5th annual convention, 1888, proceedings of, edited by Clifford	
Richardson.	A7.3:19
6th annual convention, 1889, proceedings of, edited by Harvey W. Wiley	A7.3:24
7th annual convention, 1890, proceedings of, edited by Harvey	
W. Wiley	A7.3:28
8th annual convention, 1891, proceedings of, edited by Harvey	A7.3:31
W. Wiley	. W('0'9]

	Classification no.
Chemists, Official Aæricultural, Association of—Continued	1
9th annual convention, 1892, proceedings of, edited by Harvey	
W. Wiley	A7.3:35
same, report on. p. 115  10th annual convention, 1893, proceedings of, edited by Harvey	A10.6:4
W. Wiley	A7.3:38
. W. Wiley	A7.3:43
same, report on. p. 178	A10.6:6
W. Wiley	A7.3:47
same, report on. p. 263	A10.6:7
13th annual convention, 1896, proceedings of, edited by Harvey W. Wiley	A7.3:49
same, report on (Beal). p. 272	A10.6:8
14th annual convention, 1897, proceedings of, edited by Harvey	
W. Wiley	A7.3:51
same, report on (Beal). p. 404  15th annual convention, 1898, proceedings of, edited by Harvey	A10.6:9
W. Wiley	A7.3:56
same, report on (Beal). p. 504	A10.6:10
W. Wiley	A7.3:57
same, report on (Allen). p. 204	A10.6:11
W. Wiley	A7.3:62
same, report on (May). p. 503	A10.6:12
18th annual convention, 1901, proceedings of, edited by Harvey	
W. Wiley same, report on (May). p. 406	A7.3:67
same, report on (May). p. 406	A10.6:13
19th annual convention, 1902, report on (Lawson). p. 107	
Holstein cattle. p. 161	A1.1:864
"Texel" or "Mouton Flandrin" sheep. p. 242 Cherries, food value of (Langworthy). 1899. p. 22	
Cherry Hill, N. J. Tornado at, report of (Emery). 1895. p. 252.	A 29 6.23
Cherry leaves, wild, poisoning by (Evans). p. 16.	A1.9:103
Cherry tree, black knot of (Peck). p. 175	A1.1:872
same (Taylor). 1874. p. 52	A27.9:12
Chesnut, Victor King:	1.4.1.000
Plants poisonous to stock, preliminary catalogue of. p. 387	A4.1:898
p. 295 Poisonous plants—	A6.5:7
principal of II S 1898	A6.3:20
some, of northern stock ranges. 1900. p. 305	A1.10:900
some common. 1896. p. 137	A1.10:896
thirty, of U.S. 1898	A1.9:86
Chesnut, Victor King, and Wilcox, Earley Vernon. Stock-poisoning plants of Montana, preliminary report. 1901	AR 4.00
Chess, seeds of (Hillman). 1902	A0.5;20 A19.3*•R31
Chestnut borer, two-lined, circular relative to (Chittenden). 1897	A9.5:24
Chestnut oak for railroad ties, circular on (Colman). 1887	
Chestnut trees:	
Decay of, in North Carolina. 1867. p. 58	A27.9:5
1897. p. 67. Chestnuts, culture of (Smith and Langworthy). 1900. p. 9	A1.9:114
Chester, Frank Dyer. Copper salts as fungicides. 1891. p. 21	A28.5:6
Chicago, Ill.:	100 000
Ancient climates near (Abbe). 1895. p. 424	A29.5:23
Climate of (Hazen). 1893	A27 Q.4
Dietary studies in, in 1895 and 1896, conducted with cooperation	4141.V.T
of Jane Addams and Caroline L. Hunt of Hull House (Atwa-	
ter and Bryant). 1898	A10.3:55

Classification no.

	Classification no.
Chicago, Ill.—Continued	
Farm animals at, range or average price of—	
1897 and 1898. p. 579	A4.1:898
1899. p. 673	
1900. p. 569	A4 1.000
Growth of the Northwest and. 1864. No. 2. p. 32	A 97 O.9
Uses show of 1900 (Mostin) 1901 m 240	A A 1.000 00
Horse show of 1890 (Martin). 1891. p. 349	A1 0.1150
Horses from, export of (Bruette). 1897. p. 84	A1.2:176
Live stock and meat traffic of (Perry). p. 245	A4.1:884
Live stock at, range of prices of. p. 240	A4.1:897
Live stock receipts and shipments—	40-0-
1868. p. 21	A27.9:7
1869. pp. 239, 300*, 371	A27.9:7
same. p. 45	A27.9:8
1870. p. 282	A27.9:8
same. p. 19	A27.9:9
1871. p. 89	
1872. p. 402	A27.9:10
Lumber trade at. 1857–68. p. 62.	A27.9:7
Precipitation at. 1889-91. p. 108.	A29.6:20
Precipitation at, 1889-91. p. 108.  Pork-packing in, 1867. p. 372.	A27.9:5
Railroad freights from, 1866. p. 27	A27.9:4
Trade of, 1867-68. p. 20	A 27.9.7
Union stock yards in, southern cattle fever at (Trumbower).	1121.0.1
p. 444	A4.1:884
p. 444 Weather forecast district, monthly report of—	A4.1.001
Sont 1909 May 1900 (Cor)	A 90 R.
Sept., 1898-May, 1899 (Cox)	A28.0;
June, July, 1899 (Beals)	
SeptNov., 1899 (Cox)	A29.0:27
Dec., 1899 (Beals)  JanJune, 1900 (Cox)	A29.6:27
JanJune, 1900 (Cox)	A29.6:28
July, 1900 (Bigelow)	A29.6:28
Sept., 1900-March, 1901 (Cox)	A29.6:28, 29
Apr., 1901 (Walz)	A29.6:29
May, June, 1901 (Cox)	A29.6:29
July, 1901 (Walz)	A29.6:29
Sept., 1901 (Cox)	$\mathbf{A29.6:29}$
Oct., 1901 (Walz)	A29.6:29
Nov., 1901-March, 1902 (Cox)	A29.6:29, 30
Apr., 1902 (Walz)	A29.6:30
May-Oct., 1902 (Cox)	A29.6:30
Chicago, Ill., International Live Stock Exposition, 1900:	
Canadian cattle, sheep, and swine for exhibition at, special order,	
providing for importation of—	
July 13, 1900	A4.5:67
Sept. 12, 1901	A4.5:90
July 16, 1902	
Report on (Wilson and Hill). p. 63	A4.1:900
Chicago, Ill., International Meteorological Congress, August 21-24,	
1893:	
Proceedings of (Fassig). 1894. p. 227	A 29 6.21
Report on (Fassig). 3 parts	A29.3:11
Chicago, Ill., National Convention of Cattle Breeders and Other	A20.0.11
Stockmen, called to consider subject of contagious diseases of	
domestic animals—	
[1st], Nov., 1883, proceedings of	A1.8:29
19d1 Nov. 1884 proceedings of	
[2d], Nov., 1884, proceedings of [3d], Nov., 1885, addresses before, by Norman J. Colman and	A1.8:33
	A 1 Q.99
D. E. Salmon Chicago III National Good Roads and Irrigation Congress letter	A1.8:38
Chicago, Ill., National Good Roads and Irrigation Congress, letter	A 99 0.6149
of invitation to. 1900	A22.2:C43
Chicago, Ill., World's Agricultural Congress, report of committee on	A 10. 9.10
(Morrow). 1893. p. 104.	A10.3:16
onicago, III., world a Columbian Exposition, 1033.	
Agricultural colleges and experiment stations, collective exhibit	A 10, 0, Cl49
of, circulars relative to	A10.2:C43
*By a misprint, this page number appears twice.	

•	Index
	Classification no.
Chinch bug—Continued	A1 1.007
History of (Howard). p. 51	A9.3:17
Interesting outbreak of, in northern Ohio. 1899. p. 55	
Its probable origin and diffusion, its habits and development,	
natural checks and remedial and preventive measures, with mention of habits of allied European species. 1898	AO 8.15
Observations in Iowa in 1894 (Osborn). 1894. p. 230	A9.7:7
Ohio outbreak of, three years' study of (Webster). 1896. p. 18	A9.6:6
Remedies for (Glover)	
1875. p. 442	A27.9:13 A1 1:881_9
1882. p. 87	A9.1:882
Chincha. See Skunks.	
Chinese and fruitarians, nutrition investigations among, at California	A 10, 9,107
Agricultural Experiment Station, 1899–1901 (Jaffa). 1901	A10.3:107 A4.1:900
Chinese incubators (Brill). p. 247.  Chinese labor in agriculture. p. 572.	A1.1:870
Chinese tea-plant or thea virdis:	
Cultivation and manufacture of tea from, in U.S., practicability	A 1 1.077
of. p. 349.  Practicability of its culture and manufacture in U. S. 1877	A1.1:077 A1.6:3
same. $(2d p, 26)$	A1.2:An72
Chinese vegetable food materials, their nutritive and economic value,	110000
description of (Blasdale). 1899	A10.3:68
Description of (Garriott). 1892. p. 23	A29.6:20
same (Glass). 1902. p. 41	A29.3:31
Havre, Mont., notes on (Abbe). 1898. p. 568	A29.6:26
History of (Burrows). 1901. p. 555	A1.10:901 A29,6:24
Iowa, notes on (Abbe). 1897. p. 545	A29.6:25
Montana (Abbe). 1895. p. 426.	A29.6:23
Oregon, report of (Pague). 1896. p. 460.	A29.6:24
Chinook and signs of its approach, note on (Abbe). 1897. p. 213 Chinooks and hot winds (Abbe). 1894. p. 77	A29.6:23 A29.6:22
Chinooks versus kuro siro, notes on (Abbe). 1898. p. 114	A29.6:26
Chionobas (oeneis) macounii, preliminary notes upon (Fletcher).	
1889. p. 45. Chipman, A. J. Rocky Mountain locust in Kansas and Colorado	A9.7:2
in 1880. Appp. 55	A8.1:3
Chittenden, Frank Hurlbut:	
Agrilus, North American species of, food plants and injury of.	A O. G.99
1900. p. 64	A9.6:22 A9.5:32
Asparagus, insects that affect. 1898. p. 54	
Asparagus beetles. 1896. p. 341	A1.10:896
Bean leaf-beetle, report on. 1897. p. 64	A9.0:9 A1 10:898
Beetles, certain imported, distribution of. 1895. p. 326	A9.7:7
Birch trees, destructive borer, enemy of. 1898. p. 44	A9.6:18
Bronze apple-tree weevil. 1900. p. 37	A9.6:22
Cereals, stored, and other products in Mexico, insects affecting. 1896. p. 27	A9.8:4
Cereals and other dry vegetable foods, insects affecting. 1896.	
p. 112	A9.6:4
Chestnut and pine trees in Virginia and neighboring States, insect	A9.6:7
injury to. 1897. p. 67	A9.5:24
Chicago, Ill., World's Columbian Exposition, 1893—	
destruction of insects occurring in foreign exhibitions. 1894.	A O 7.6
p. 220insect collections of 1894 n 238	A9.7:6
p. 225 insect collections of. 1894. p. 236 Coleopterous enemies of grapevine, some. 1895. p. 384	A9.7:7
Cucumber beetle, notes on. 1898. p. 27.	A9.6:10
Cucumber beetle, notes on. 1898. p. 27  Fall army worm and variegated cutworm. 1901  Flea-beetle living on purslane. 1898. p. 83.	A9.6:29
reg-beene name on bargue. 1989. b. 99	A0.U.10

Index	Classification no.
Chittenden, Frank Hurlbut—Continued	
Fruit-tree bark-beetle, circular on. 1898	A9.5:29
Garden and orchard crops, some insects injurious to. 1899	A9.6:19
Garden crops, insects injurious to. 1900	A9.0:23
Grain, stored, more important insects injurious to. 1894. p. 277	A1.10:894
Green clover worm. 1901. p. 45.	A9.6:30
Green pea louse, destructive, circular on. 1901	A9.5:43
Herbivorous habits of certain dermestidæ. 1895. p. 36	
Horse-radish flea-beetle, report of. 1895. p. 404	A9.7:7
1893. p. 247	A9.7:5
Insects, principal injurious, in 1901. p. 674	A1.10:901
insocus and weather, observations during season of 1000. p. 01	A0.U.ZZ
same. 1900. p. 63	A9.6:30
Leaf-mining locust beetle, with notes on related species. 1902.	A9.7:2
p. 70	A9.6:38
Leaf-tyer of grape and elderberry. 1898. p. 82	A9.6:18
Mediterranean flour moth, development of. 1896. p. 85	
Millet, insect injury to. 1898. p. 84	A9.6:17
Palm and palmetto weevils. 1902. p. 23.  Plants, useful, certain species of Coleoptera that attack, notes on.	A9.6:38
1897. p. 20	A9.6:9
Potato-bud weevil, report of. 1895. p. 350	A9.7:7
Rhinoceros beetle, notes on. 1902. p. 28. Rose-chafer, circular on. 1895.	A9.6.38
Rose-chaier, circular on. 1895	A9.5:11
Rose leaf-beetle, report on. 1897. p. 60	A9.0:7 A9.5:30
Squash-vine borer, circular on. 1899	A9.5:38
Strawberry weevil—	
circular on. 1897.	A9.5:21
habits and remedies, supplementary notes on. 1894. p. 14	
injuries and bibliography, notes on. 1898. p. 82report of. 1893. p. 167	A9.6:10
Striped cucumber beetle. 1898.	
Tobacco flea-beetle, report on. 1898. p. 79.	A9.6:10
Tobacco-stalk weevil. 1902. p. 66	A9.6:38
Twig pruners and allied species. 1898. p. 35.	
Vegetable crops, some insects injurious to. 1902	A9.6:33
on some little-known. 1897	A9.6:8
Violet, rose, and other ornamental plants, some insects injurious	
to. 1901	A9.6:27
White pine, insect enemies of. 1899. p. 55	A13.3:22
Chittenden, H. M. Road system, Government, of Yellowstone   National Park. 1901. p. 72.	A 99 Q.91
Chlorin. See Proteid matters.	Aud.U.dl
Choate, A. B.:	
Address of, before Minnesota good roads convention, Jan., 1894.	1000
pp. 5, 11	A22.3:2
Cholera, report relative to. 1866. pp. 56, 127.	A22.4:32 A97 Q:1
See also Chicken cholera — Fowl cholera — Hog cholera.	A21.0.4
Chowen, W. S. Address of, before Minnesota good roads conven-	
tion, Jan., 1894. p. 13	A22.3:2
Chwolson, Orest. See Schwolson.	A 00 0.00
Christian George L. Address of before Virginia good roads con-	A29.0:26
Christian, George L. Address of, before Virginia good roads convention, Oct. 18, 1894. p. 8.  Chronological cycles, note on (Abbe). 1900. p. 557.	A22.3:11
Chronological cycles, note on (Abbe). 1900. p. 557.	A29.6:28
Chrysalis, curious, report of. 1892. p. 131	A9.7:5
Chubbuck, Levi. Dairy industry in Missouri and Kansas. 1897	A4.3:18
Chufa, or earth almond, cultivation of. 1876. p. 37	AZ/.9:14
1899. p. 100	A10.3:65
Table Table Sandanananananananananananananananananan	

	Classification no
Cicada, periodical, or seventeen-year locust:	}
Account of Cicada septendecim, its natural enemies, and means of preventing its injury, with summary of distribution of differ-	
ent broods (Marlatt). 1898	A9.6:14
Broods of, new nomenclature for (Marlatt). 1902	A9.5:45
1897 (Schwarz)	A9.5:22
1898 (Schwarz)	A9.5:30
1902 (Hunter)	A9.5:44
Consideration of validity of old records bearing on distribution of broods of, with particular reference to occurrence of broods VI	
and XXIII in 1898 (Marlatt). 1898. p. 59	
Feeding habits of adults of (Quaintance). 1902. p. 90	
Forecast for 1894 (Riley)	A9.2:P41
New nomenclature for broods of (Marlatt). 1898. p. 52	A9.6:18
Present year's appearances of. 1893. p. 298	A9.7:5
Report on (Riley). 1885.	A9.3:8
Southeastern Indiana. 1886. p. 24	A9.7:2
Cider:	A9.1:2
Address on, before Association of Official Agricultural Chemists,	
1901 (Alwood). p. 84	A7.3:67
Adulteration of (Crampton). 1887. p. 263	A7.3:13 <sup>3</sup>
American, composition of, and substances used in adulteration	
(Crampton). p. 183	A1.1:887
Sweet, preservation of. 1898, p. 29	A1.9:78
Cigar-leaf tobacco:	
Cultivation of, in Florida (Floyd). 1899	A1.8:62
Curing and fermentation of (Loew.). 1899.	A1.8:59
Temperature changes in fermenting piles of (Whitney and Means).	A1.8:60
See also Tobacco.	A1.8:00
Cigar-wrapper leaf, methods of experimenting with (Jenkins). 1901.	
p. 102	A10.3:99
Cimbex, American, adults of, injuring willow and cottonwood in	
Nebraska (Webster). 1890. p. 228	A9.7:2
Cinchona:	
Cultivation of—	
in United States (Antisell). p. 454	A1.1:866
in India. 1870. p. 285.	A27.9:8
Note on. 1864. No. 1. p. 27.	A27.9:3
Planting of, in Jamaica (Parry). 1871. p. 120	A27.9:9
Hogs packed at, 1833-64. No. 6. p. 33	A27.9:2
Pork-packing in, 1833-67. p. 52.	A27.9:5
Cipher code, international, for correspondence respecting the aurora	
and related conditions (Veeder). 1894. p. 26	$A29.3:11^{1}$
Cipher code of wind-signal orders, amending instructions to special-	
display men. 1892	A29.2:C49
Circle City, Alaska, meteorological observations near, 1896-98	1 00 0 00
(Holt). p. 542	A29.6:26
Circumscissa. See Cercospora circumscissa.	
Cirencester, England, Royal Agricultural College at, report on. 1885.	A1 8.28
p. 70. Cist, Charles. Hog and its products. p. 382.	A1.1.866
Clues:	
Industries of. 1884. No. 8. p. 26 Milk supply of. p. 332 Sewage of (Brown). 1872. p. 379	A21.9.22 A1 1.979
Sewage of (Brown) 1872 n 379	A27 9-10
Cities and towns, weeds in (Dewey). 1898. p. 193	A1.10:898
Citrate-soluble phosphoric acid. See Guanos — Phosphoric acid.	
Citric acid. action of, on basic slag (Huston and Jones). 1896. p. 68	A7.3:49
Citric acid in milk, report on (Soulhet). 1889. p. 155	A7.3:24
Citric acid in milk, report on (Soulhet). 1889. p. 155	A1.1:867
Citrus fruits, principal diseases of, in Florida (Swingle and Webber).	4000
1896	A28.3:8
See also Orange.	I

	Classification no.
Citrus trees, scale insect and mite enemies of (Marlatt). 1900. p. 247. Civil Service:	
Examinations—	
assistants in Department of Agriculture (Abbe). 1898. p.	
Weather Bureau employees (Abbe). 1898. p. 63	A29.6:26
weather observers in U.S. Weather Bureau (Kimball). 1898.	A29.6:26
p. 548	A29.6:26
ment	A1.2:C49 <sup>1</sup>
same (Dabney). 1897	
Clam, long, rapid disappearance of (Beal). 1898. p. 19.	A1 9·103
Clark, H. C. Meat industries of United States, report accompany-	111101100
ing exhibit of Animal Industry Bureau, at Paris Exposition.	
1889. p. 359	A4.1:887-8
Clark, Josephine Adelaide:	
Agricultural College libraries. 1902. p. 25	A10.3:115
Mushrooms, edible and poisonous, reference list of publications	117000
relating to. 1898	A17.3:20
Phanerogams and Pteridophytes, North American, new species	
of, published in 1891, systematic and alphabetic index.	A6.5:1
1892. p. 151 same, published in 1892. p. 233.	A6.5:1
See also, for reports as Librarian, Library, Agriculture Depart-	AOIOII
ment, 1901, 1902.	A17.1:
Clark, V. A.:	
Apples, keeping qualities of, 1900, p. 16	A1.9:119
Apples, storing without ice. 1900. p. 5	A1.9:119
Cold storage on the farm. 1900. p. 9	A1.9:119
Corn, sweet, and pole beans, forcing of, under glass. 1898. p. 13.	A1.9:105
Fruit, mechanical cold storage for. 1900. p. 12.	A1.9:119
Fruit trees, close root pruning of. p. 13	A1.9:103
Plums, cross-pollination of. 1899. 'p. 6	A1.9:100 A1.9:103
See also, as joint author, True, Alfred Charles.	111.0.100
Clarke, J. W. Fruit gathering, ripening and keeping. p. 152	A1.1:864
Clarke, Lowell. Lamb feeding in Colorado. p. 275	A4.1:901
Claxton, T. F.:	
Mauritius cyclone of Dec. 5, 1897. p. 62	A29.6:26
Thunderstorms, two, at Royal Alfred Observatory, Mauritius.	A 00 0.00
1900. p. 63. Clay, John, jr. Breeder, work of, in improving live stock. p. 627.	A29.6:28
Clay:	A1.10:000
Filtration of, from soil solutions, capillary studies and. 1902	A26.3:19
Suspended, filtration of, from soil solutions (Briggs). 1902. p. 31.	
Clayton, H. H.:	
Cloud observations at Blue Hill. 1897. p. 135	A29.6:25
Clouds, different, forms of, mean heights and velocities of. 1892.	100.0.00
p. 50. Clearing new land (Williams). 1902.	A29.6:20
Claratic descript Phytomena affinia as cause of (Res) 1802	A1.9:100
Clematis, decay in, Phytomyza affinis, as cause of (Bos). 1893.	A9.7:6
Clement, A. W. Pneumonia among horses. p. 381	A4.1:889-90
Clermont-Ferrand. France. International Hydrological, Climato-	
Clermont-Ferrand, France, International Hydrological, Climatological, and Geological Congress, Sept. 28 to Oct. 2, 1896	
(Rotch). p. 367	A29.6:24
Clavalana Unia <i>See</i> St. Langting Callege	
Clift, J. W. Road improvement, requisites to. 1902. p. 26	A22.3:23
l'illingto'	
nuska (11chry). 1001. p. 240	A29.0.20 A29.2.A11
Alaska (Henry). 1897. p. 248 same (Moore). 1897 Ancient, near Chicago (Abbe). 1895. p. 424 Antigua, W. I., seasonal variations in 1890–1900 (Kimball). p.	A29.6:23
Antigua, W. I., seasonal variations in 1890-1900 (Kimball). p.	
168	A29.6:29
168 Appalachians, southern (Henry). p. 143 Arkansas, southwestern, 1840-67. p. 429	A1.2:Ap4*
Arkansas, southwestern, 1840-67. p. 429	A27,9:8

	Classification no
Climate—Continued	
Athens, notes on (Abbe). 1898. p. 554	A29.6:26
Baguio, Philippine Islands (Stetson). 1902. p. 478	A29.6:30
British Islands (Harding). 1896. p. 611	A29.3:11*
California (Irish). 1895. p. 475	A1.10:895
Canada. See Canada, climatological data.	100 0 05
Changes in local (Abbe). 1897. p. 491.	A29.6:25
Colorado, and its effect on trees (Parsons). 1888. p. 221	A13.3:2
Conflict of man with, notes on (Abbe) 1899. p. 257	AZ9.0:21
Controlling factor in long-distance transmission of electrical energy (McAdie). 1897. p. 439.	A 90 G . 95
Death Valley, Cal. (Harrington). 1892	A 29 3·1
Denmark (Paulsen). 1896. p. 640	A29.3:11 8
Florida, statement of products and (Knapp). 1885. No. 19, p. 23.	
Geological ages (Abbe). 1898. p. 313	A29.6:26
Georgia (Hemphill). 1882	A1.6:47
Glacier as an index of, notes on (Abbe). 1901. p. 177	A29.6:29
Harpoot, Turkey in Asia, 1898-1900 (Huntington). 1901. p. 250.	A29.6:29
Hawaii. See Hawaii, climatological data.	
Idaho, some features of (Blandford). 1901. p. 19	A29.6:29
Influence of, on animal life (Dean). 1902. p. 107	A29.3:31
Jamaica. See Jamaica, climatological data.	1
Liberia, notes on (Abbe). 1898. p. 215.	A29.6:26
Local, influence of small lakes on (Abbe). 1901. p. 563	A29.6:29
Maine (Boardman). 1884	' A1.7:4   A00.9:118
Mexico. 1894. p. 333	AZ9.3:11* A 97 0.99
See also Mexico, climatological data.	A21.9:52
Mexico, City of (Bárcena). 1896. p. 601	1 1 20 3 11 3
Mississippi (Hurt). 1884	A1 7:3
Missouri, notes on (Hackett). 1899. p. 582	129.6:27
Netherlands (Snellen). 1896. p. 627.	A29.3:11 8
Norway (Mohn). 1896. p. 647	A29.3:118
Ohio, western. 1868–1870. p. 198	
Oregon. 1871. p. 129.	A27.9:9
Oscillation of, in arid regions, notes on (Abbe). 1900. p. 544	A29.6:28
Pacific coast (Merrick). p. 280.  Pacific slope (Hilgard). 1892. p. 9.	A1.1:867
Pacific slope (Hilgard). 1892. p. 9	A1.8:20
Periodicity in, notes on (Abbe). 1901. p. 511	A29.6:29
Permanence of (Sims). 1901. p. 121.	
same (Abbe). 1901. p. 175	A29.0:29
Philippines (Brewer). 1900. p. 102	A 29.0:28 A 90. 8:98
Puerto Rico (Harrington). 1898. p. 437	
Relations of soil to (Hilgard). 1892	1 A 29 3 3
St. Lawrence Island, 1894-99 (Henry). p. 457	A29.6:27
Santa Barbara, California. 1871. p. 196.	A27.9:9
South Carolina (Hemphill). 1882	A1.6.47
Spokane, Wash., 1882-99 (Stewart). p. 490	
Statistics of, 1896, report of (Henry). p. 277	A29.1:897
Studies of—	
1899 (Walz). p. 136.	
1902 (Herrmann). p. 198	
1902 (Fassig). p. 200	A29.3:31
Texas (Abbe). 1894. p. 331. United States (Hezen) 1896 v. 585 v.	AZ9.0:ZI A90-2.113
United States (Hazen). 1896. p. 585 m	A20.5:11° A90 2:118
same (Allen). 1896. p. 585	A 29 2-118
See also Arid regions—Climatology—Cold Friday—Cold waves—	
Meteorology—and headings beginning Climate. Climatology.	
Meteorology—and headings beginning Climate, Climatology, Climate and corn, relation of (Wren). 1901. p. 8	Λ29.6:29
Climate and crime, relation between (Abbe). 1897. p. 259	A29.6:25
Climate and crop and storm-warning services of Weather Bureau,	
value of, to industries of Cuba and other islands of West Indies	
(Hayes.) 1902. p. 58	A29.3:31
same, to Porto Rico (Noyes). 1902. p. 60	A29.3:31

Index	<b>6</b> 7 - 10 - 41
Olimete and such bulleting	Classification no.
Climate and crop bulletins	<b>A29.7:</b>
ing weekly, advisable? (Mitchell). 1899. p. 126	A29.3:24
same (Linney). 1899. p. 126	A29.3:24
Climate and crop correspondents, Weather Bureau, how many are	
required to meet fully the needs of Bureau in its climate and	4.00.0.01
crop service? (Allen.) 1902. p. 195	A29.3:31
Climate and crop sections, Weather Bureau:	
Monthly reports of, extracts from AprDec. (Abbe). 1898	A29.6:26
Publications of, necessity for binding and otherwise preserving	
(Belden). 1902. p. 177.	A29.3:31
Should monthly reports of, contain only original matter? (Love-	A29.3:31
land). 1902. p. 187 See also Alaska.	A20.3.31
Climate and crop service:	
Annual summaries of, notes on (Abbe). 1899. p. 254	A29.6:27
Porto Rico, notes (Abbe). 1899. p. 258	A29.6:27
Publications of (Berry). 1899. p. 150.	A29.6:27
Reports, extracts from, Apr., May, Sept., Oct., 1895–Dec., 1902 (Berry)	A29.6:
(Berry) State services (Abbe). 1895. p. 384	A29.6:23
Weekly bulletins, should remarks of correspondents be pub-	
lished?—	100000
1899 (Hackett). p. 107	A29.3:24
1899 (Marburý). p. 108 1902 (Glenn). p. 188	A29.3:24 A20.3:31
See also Weather and crop conditions.	A20.0.01
Climate and crops:	
Notes on (Kimball). 1901. p. 564.	A29.6:29
Problem with two solutions (Abbe). 1901. p. 419	A29.6:29
Secular changes in (Abbe). 1897. p. 211	A29.0:20 A90 8:90
Climate and germination (Detmer). 1895. p. 405.	A29.3:11 <sup>2</sup>
Climate and health, monthly periodical	A29.8:
Same, circular announcing discontinuance of, June 22, 1896	A29.2:C61
Climate and man, with special regard to climate and climatic elements as curative or causative agencies of disease (Wilson).	
ments as curative or causative agencies of disease (Wilson).	A29.3:31
Climate and rainfall, relations of, to prevalence of fungus diseases	A20.0.01
(Halsted). 1899. p. 126	A10.3:65
Climate and thought (Easton). 1902. p. 111.	A29.3:31
Climate and vegetation:	A 00 0 01
Relation between (Linney). 1902. p. 98	A29.3:31 A29.6:22
Climatic and scricultural features of arid regions of Pacific slope	A25.U.22
Climatic and agricultural features of arid regions of Pacific slope (Hilgard and others). 1882	A1.8:20
Climatic charts of U.S. 1900	A29.2:C61
Climatic conditions, general:	A 00 C 01
1893. p. 377	A29.0:21 A90 8:99
1895. p. 489	
1896. p. 487	A29.6:24
1897. p. 569	A29.6:25
1898 (Henry). p. 595 1899 (Henry). p. 579	A29.6:26
1899 (Henry). p. 5/9	A29.6:27 A29.6:28
1900 (Henry). p. 587 1901 (Henry). p. 592	
Climatic divisions of Missouri, note on (Abbe). 1900. p. 160	A29.6:28
Climatological atlas of Russian Empire, notes on (Abbe). 1900.	
p. 343	A29.6:28
Climatological congress. See Clermont-Ferrand, France.	A29.3:24
Climatological data, interchange of standard (McAdie). p. 135  See also Canada — Ecuador — Hawaii — Jamaica — Mexico.	A40.0.42
Climatology:	•
American grapevines (Lippincott). p. 194	A1.1:862
Antigua, W. I. (Alexander). 1901. p. 165	A29.6:29

Classification no.

	Classification no.
Climatology—Continued	
Applied, notes on (Abbe). 1901. p. 458	A29.6:29
Asia, southern and western (Dallas). 1896. p. 672	A29.3:11 <sup>8</sup>
California, note on (Abbe), 1900, pp. 165, 249	A29.6:28
Costa Rica, monthly notes on, Jan., 1901–Oct., 1902 (Pittier)	A29.6:
Florida, with regard to crops (Mitchell). 1902. p. 208	A29.3:31
German Empire, development of (Meyer). 1896. p. 652	A29.3:11 <sup>3</sup>
Hann's handbook of, note on (Harrington). 1898. p. 353	A29.6:26
Havana, Cuba—	
monthly notes on, AprJuly, SeptOct., 1901 (Stockman)	A29.6:29
same. Nov. 1901 (Haves)	A29.6:29
same. Dec., 1901; FebApr., 1902 (Stockman)	A29.6:29, 30
report on (Del Monte). 1898. p. 152	A29.6:28
report on (Del Monte). 1898. p. 152	
department University of Texas (Cline). 1902. p. 110	A29.3:31
Monthly notes on, June, 1895—Sept., 1897	A29.6:
Same. OctDec., 1897 (Henry)	
Panama, Isthmus of, including temperature, winds, barometric	
pressure, and precipitation (Abbot). 1899. pp. 198, 302	
Polar vs. equatorial (Abbe). 1898. p. 311	
Present condition and recent progress of (Kocppen). 1896. p. 461.	
Relation to cotton cultivation (Whitney). 1896. p. 143	
St. Kitts—	
notes on (Alexander). 1899. p. 583	A 29.6:27
same (Abbe). 1900. pp. 66, 330.	A29.6:28
comparison of barometers, used in determining (Alexander).	1120.0.20
1901. p. 257	A 29 6 29
San Diego, Cal., notes on, 1849-99 (Abbe). p. 20.	A29.6:28
Use of word (Abbe). 1898. p. 214.	
See also Climate.	1120,0,20
Climatology and horticulture:	
Relation of (Wickson) 1900 n 45	A10.3:76
Relation of (Wickson). 1900. p. 45 Some interrelations of (Bailey). 1895. p. 431	A29.3:11 <sup>2</sup>
Climatology circulars, sanitary	A29.15:
Climatology Division. See Weather Bureau, Agriculture Department.	.X20.10.
Climatology vs. meteorology (Whitney). 1898. p. 301	A29.6:26
Cline, Isaac M.:	120.0.20
Brazos River Valley, Texas, floods in 1899, with notes on pre-	
vious overflows. p. 295	A29.6:27
same, 1900, with report of freshets in other streams. p. 198	
Floods, Colorado Valley, Texas, April 7 to 17, 1900, special report	A20.0.20
on, and other floods during same period. p. 146	A29.6:28
Galveston weather forecast district, report on. 1902. p. 292	
Medical climatology, synopsis of course of lectures in, to senior	A20.0.20
class medical department University of Texas. 1902. p. 110.	A29.3:31
New Orleans weather forecast district, report of, monthly, Sept.,	120.0.01
1901-Oct., 1902	A29.6:29, 30
Temperatures, probable, forecasts of. 1899. p. 166	A29.3:24
Weather Bureau forecasts, value of. 1895. p. 293	A29.6:23
Cline, Joseph L. Porto Rico, island of, report on. 1901. p. 353	A29.6:29
Clisiocampa Americana, relations of Pimpla conquisitor to (Weed	1120.0.20
and Fiske). 1900. p. 33.	A9.6:26
Clock, postal telegraph, and weather bulletin, note on (Abbe).	120.0.20
1897. p. 351	A29.6:25
Cloth. See also Maize-paper and maize-cloth.	1120,0.20
Clothes moths, true:	
Circular relative to (Marlatt) 1898	A 9 5 - 38
Circular relative to (Marlatt). 1898	AQ 7.9
Clothing and temperature, report on (Phillips). 1897. p. 200	A 20 R 25
Clothing meterial importation of 1866 n 195	A 27 Q.4
Clothing material, importation of. 1866. p. 425	1 1 1 1 QRR
Cloud observations:	
Rine Hill meteorological observatory Milton Mass (Rotch)	
1907 n 19	A 20 R-25
same (Clayton) 1897 n 185	A 29 R 25
Form for record of (Richards and Abba) 1808 n 458	A 20 A 2A
1897. p. 12  same (Clayton). 1897. p. 135  Form for record of (Richards and Abbe). 1898. p. 456  Improved nephoscope and (Marvin). 1896. p. 9	A29.6:24
	,

Index	Classification no.
Cloud observations—Continued	CINSSINGMENT NO.
International, notes on (Abbe). 1896. p. 461	A29.6:24
mission, results of (Bigelow)—	A 29 6 27
1898. p. 404	A29.6:28
1900	A29.1:899 <sup>2</sup>
Study of upper atmosphere by means of (Vettin). 1896. p. 758.	
Toronto (Blake). 1897. p. 19. Utilization of, in local and general weather predictions (McAdie). 1894. p. 21	A29.8:25 A29.3:11 <sup>1</sup>
Cloud phenomena:	
Attending hailstorms (Very). 1894. p. 292	A29.6:22
Sunrise and sunset, notes on (Abbe). 1898. p. 565	A29.6:26
Apparatus for (Henry). 1895. p. 169	A29.6:23
same, correction. p. 255 Automatic, note on (Fassig). 1896. p. 456	A29.6:23
Automatic, note on (Fassig). 1896. p. 456	A29.6:24
Study of (Angot). 1896. p. 769	A29.3:11°
Cloudburst, tornado, or waterspout, note on (Abbe). 1897. p. 207. Cloudburst at Erwin, Tenn. (Worth). 1898. p. 244	A29.0:20 A 90 R 99
Cloudbursts in New England, note on (Elmer). 1902. p. 478	A29.6:30
Cloudiness:	
Monthly notes on, Jan., 1894-Oct., 1902	<b>A29.6</b> :
Probable, during total solar eclipse of May 28, 1900 (Abbe). p. 422.	A29.6:27
Clouds: Altitudes of, note on (Abbe). 1897. p. 447	A 90 G 95
Balloons and kites, report on (Abbe). 1896. p. 206.	A29.6:24
Banks of distant (Abbe). 1897. p. 543.	A29.6:25
Banks of distant (Abbe). 1897. p. 543	A29.6:25
Cumulus—	A 90 G 90
above columns of smoke, notes on (Abbe). 1901. p. 26	A29.0;29 A20 6.29
Bayonne, N. J., fire (Eadie) 1900. p. 433	A29.6:29
over a fire, observation of (Ward). 1898. p. 104.	A29.6:26
same (Abbe). 1900. p. 549	A29.6:28
Forms of— description of, charts	   A90 9.000
description of, charts different, mean heights and velocities of (Clayton). 1892.	A28.2.Q02
p. 50.	A29.6:20
p. 50	A29.6:24
itali, notes on bombarding (Abbe). 1800. p. 042	A20.0.20
Height of, a problem for students (Abbe). 1897. p. 161	A29.0:20 A90 6:91
Incandescent, note on (Abbe). 1901. p. 466	A29.6:29
Jamaica (Abbe). 1896. p. 15	A29.6:24
Minnesota, movements of (Abbe). 1897. p. 252	A29.6:25
Movements of, atmospheric circulation in tropical cyclones as shown by (Boyer). 1896	A 90, 9 . A + @ 1
Names of, international (Abbe). 1899. p. 61.	A29.2:A00- A29.6:27
Reflection by, of light from distant fire, note on (Abbe). 1901.	1120.0.21
p. 69	A29.6:29
Roll of, horizontal (Abbe). 1895. p. 212.	A29.6:23
Stereoscope study of (Abbe). 1897. p. 98	A29.6:25
Umbrella notes on (Johnson) 1898 n 207	A29.6.26
Upper, and weather changes, report on (Richards), 1898, p. 106.	A29.6:26
Toronto, heights at (Abbe). 1897. p. 303. Umbrella, notes on (Johnson). 1898. p. 207. Upper, and weather changes, report on (Richards). 1898. p. 106. Wave or billow, report on (Henry). 1899. p. 57.	A29.6:27
Whirling alto-cumulus (Abbe). 1898. p. 68. Whirling alto-stratus (McAdie). 1897. p. 245.	A29.6:26
Whirling alto-stratus (McAdie). 1897. p. 245	A29.5:25
Winds and, report on (Brillouin). 1897. p. 437. Cloudy condensation, notes on (Abbe). 1897. p. 543	A 29.0:20 A 29 R 25
Cloudy days, records of (Abbe). 1897. p. 249	A 29.6:25
Clough, Homer W. Atmosphere, movement of, new method of	•
Clough, Homer W. Atmosphere, movement of, new method of observing direction of. 1898. p. 250	A29.6:26
Clough, William: Sorghum, or Northern sugar cane. p. 54	1
borgnum, or normern sugar cane. p. 54	A1.1:00%

	Index Classification no.
Clough, William—Continued	Classischeron Mot
Sugar, production of, from sorghum or Northern sugar cane. p. 307	A1.1:865
Clover:	
Crops, condition of, June, 1864. No. 3. p. 10	A27.9:2 A6.4:14
Seed of— American, chemical composition compared to that grown in	
Europe. 1898. p. 17. crop of, 1863. No. 6. p. 11.	A1.9:79 A27.9:1
See also Alsike clover — Crimson clover — Crops, principal — Red clover seed.	
Clover hay worm, Asopia costalis, some studies of (Webster). 1891.	1074
p. 121 Clover-leaf beetle, invasion by (Smith). 1891. p. 231 Clover mite:	A9.7:4 A9.7:3
Circular relative to (Marlatt). 1897	A9.5:19
Report on (Riley and Marlatt). 1890. p. 45	A9.7:3
Clover-seed caterpillar, report on (Osborn and Gossard). 1891. p. 56.	A9.7:4
Clover-seed midge in Wisconsin, note on. 1886. p. 39	
Club-root in U.S., report on (Eycleshymer). 1891. p. 79	
Clubs. See Agricultural and horticultural societies and clubs. Cluss, Adolph. See, for report as architect, 1868, Agriculture de-	
partment, architect of. Cluss and Kammerhueber, Agriculture Department, building for,	
specifications of workmanship and materials required in. 1867 Clute, Jacob. Address of, before National Road Conference, July,	-
1894. p. 14	A22.3:10
1894. p. 14  Coal, anthracite, production of, in Pennsylvania. 1820–72. p. 36.  See also Brown coal.	A27.9:11
Coal ashes. See Ashes. Coal oil: Composition and qualities manufacture use in arts history of	
Composition and qualities, manufacture, use in arts, history of discovery, and theory of origin (Lesley). p. 429	
See also Petroleum. Coates, C. E., jr. Agricultural course in the South, principles under-	
lying formation of. 1900. p. 59	A10.3:76
Cobb County, Georgia, soil survey of (Burke and Marean). p. 317 Coccidæ:	A26.5:901 <sup>1</sup>
Collected in Puerto Rico by A. Busck in 1899, list of (Pergande and Cockerell) 1900 n 92	A O 6.99
and Cockerell). 1900. p. 92	A9.7:6
Georgia, notes on (Scott). 1900. p. 49	A9.6:26
Jamaican, some food plants of (Cockerell). pp. 158, 245	A9.7:5
p. 47	A9.8:4
Maritime species of (Cockerell). 1894. p. 42 Massachusetts, notes on some (Cooley). 1898. p. 61	
Natural condition which affects distribution and abundance of	
(Cockerell). 1895. p. 91 New, collected in Mexico by Prof. C. H. T. Townsend, notes and	220.0.2
descriptions of (Cockerell). 1896. p. 31	A9.8:4
Ohio, partial list of (Webster and Burgess). 1902. p. 109	
p. 350 San Francisco, some found by Alex. Craw in course of his quar-	A1.1:880
antine work at (Cockerell). 1896. p. 42	A9.8:4
Coccidia:	
Hepatic, of rabbits, Eimeria stiedæ, correct name for. 1902. p. 18.  New genus of, Eimeriella (Stiles). 1902. p. 18.  Coccids:	A4.3:35 A4.3:35
	A9.6:20
Fatal temperature for some, in Georgia (Scott). 1899. p. 82 New, on birch (Hubbard and Pergande). 1898. p. 13	A9.6:18

~	Classification no.
Coccinellid, abnormal, report on (Burgess). 1898. p. 39	
See also Australian scymnus.	A0.0.11
Coccinellidæ:	
	10.7.9
Conservatory, experiment with (Webster). 1890. p. 363	
Scale-feeding predatory insects which affect usefulness of (Mar-	
latt). 1902. p. 84	A8.0:37
See also Tasmanian coccinellidæ.	
Cockerell, Theodore Dru Alison:	
Coccide—	A O 7.0
distribution of. 1893. p. 99	A9.7:6
	A O. Ø . O
1895. p. 91	A9.6:2
new, collected in Mexico, by Prof. C. H. Tyler Townsend, notes	A O O . 4
and descriptions of. 1896. p. 31	A9.8:4
some, found by Alex. Craw in course of his quarantine work	A O O . 4
at San Francisco. 1896. p. 42  Entomological ethics, report on. 1898. p. 87	A9.5.4
Entomological etnics, report on. 1898. p. 87	A9.0:17
Fungi of Custer County, Colo. 1889. p. 84	
Jamaican coccidæ, some, food plants of. 1893. p. 158, 245	
Japanese coccidæ, some new species of, with notes. 1896. p. 47.	A9.8:4
Lecanium infesting blackberry, considered identical with L.	40.7.7
fitchii. 1894. p. 29	A9.7:7
Maritime species of coccidæ. 1894. p. 42	A9.7:7
New Mexico, injurious insects of, notes from. 1894. p. 207	
New Mexico and Arizona, entomological notes from. 1902. p.	
107	A9.6:37
Orthezia insignis as garden pest. 1892. p. 89	A9.7:5
Paris green, experience with. 1897. p. 25.	A9.6:9
Plant faunæ, notes on. 1892. p. 117	A9.7:5
San Jose scale and its nearest allies, 1897	
Sawfly, new, which is injurious to hollyhocks. 1894. p. 251	A9.7:7
Slip-records for entomologists, note on. 1893. p. 198	
West Indian rufous scale, report of. 1892. p. 380	A9.7:4
See also, as joint author, Pergande, Theodore.	4.4.1.000.4
Cocklebur, a weed poisonous to stock. p. 99	A4.1:893-4
Cockrill, B. F. Live-stock interests in Tennessee. 1883. p. 225	A1.7:2
Cockroaches:	40 7 7
Migration of (Howard). 1895. p. 349	A9.7:7
Report on—	40 70
1890 (Riley). p. 266. 1896 (Marlatt). p. 84	A9.7:Z
1896 (Mariatt). p. 84	A9.5:4
1902 (Marlatt)	A9.0:01
Viviparous, report on. 1891. p. 443	A9.7:3
Cocoa palm, origin and distribution of (Cook). 1901. p. 257	
Cocoa preparations, adulteration of (Spencer). 1892. p. 875	
Same (Ewell). 1892. p. 933	A1.3;13;
Cocoanut mealy-wing, report of. 1893. p. 314.	A9.7:0
Cocoanut palms, diseased, in Cuba, report of investigation of (Busck).	1 A O <i>Q</i> . 90
1902. p. 20.	
Cocos Island, plants from, collected by U. S. S. "Albatross" in	
1887-91, list of (Rose). 1892. p. 135	V0'0'T
Code, W. H.:	A10 2.98
Arizona, irrigation in, use of water in. 1899. p. 111	
Irrigation in Salt River Valley, Arizona. 1900. p. 83	A10.3.104
same. 1901. p. 51	Alvidixin
Double-brooded, report of (Marlatt). 1894. p. 248	AQ 7.7
Investigation of, in Idaho, 1900 (Simpson). p. 51 Investigations in Northwest during 1901 (Simpson). 1902	A9 6:25
Life history, studies on (Gillette). 1902. p. 5	A9.6:31
Recent studies on. 1899. p. 19	A1 9-92
Report on (Howard). p. 88	A1.1:887
Coe, A. B.:	444.1.001
Chinook winds, how they came in 1896. p. 413	A 20 R . 24
Kites in Montana. 1896. p. 237	A29.6:24
Cœur d'Alene Mountains, Idaho, botanical survey of, during summer	
of 1895 (Leiberg). 1897. p. 5	
or roso (mornore). Tooli h. o	- 424.4.4

	Classification no.
Coffee:	A T O 107
Adulteration of (Spencer). 1892. p. 875	A7.3:13'
Brazilian. 1876. p. 275.	AZ/.9:14
Consumption of, in U.S., per capita of population— 1870–1895. p. 552	A 1 10.805
1896. p. 595	A1.10:898
1898. p. 723	A1.10:898
1898. p. 723 Cultivation of, in Mexico (Foster). 1876. p. 268	A27.9:14
Culture and habits of (Weaver). p. 31	A1.1:879
Culture in Guatemala. 1889. p. 175	A27.9:27
Imports and consumption of, in U.S. 1872. p. 35.	A27.9:11
Plant, cultivation of. p. 25	A1.6:3
Shade in culture of (Cook). 1901. Substitutes (Langworthy). 1900. p. 22.	A0.3:20 -
Coffey, George N. See, as joint author, Dorsey, Clarence Wilbur.	A1.5.122
Coffey, George N., and Hearn, W. Edward:	
Soil survey of—	
Alamance County, North Carolina. p. 297 Cary area, North Carolina. p. 311	A26.5:901 <sup>1</sup>
Cary area, North Carolina. p. 311	A26.5:901 <sup>1</sup>
Coffin, Fred. F. B.:	
Artesian and underflow conditions in South Dakota. 1893. pt.	ATE OF HE
4, p. 51	A15.2:Ir72
Artesian well investigation, field work in South Dakota. 1890. p. 125	A15.2:Ar7
Cogniaux, Alfred. Roseanthus, a new genus of cucurbitacese from	A10.2:A17
Acapulco, Mexico, 1896, p. 577	A6.5:3
Acapulco, Mexico. 1896. p. 577.  Cohn, Ferd. Hessian fly in Silesia in 1869; translated by C. F.	210.0.0
Gissler. 1883. App. p. 39.	A8.1:3
Coins and currency of U.S. 1898. p. 676	A1.10:898
Colaspis flavida injuring Le Conte pear, note on. 1886. p. 40	
Cold, widespread area of, notes on (Abbe). 1899. p. 257	A29.6:27
Cold frames. See Greenhouses and cold frames.	A OO . O. O.
"Cold Friday," Feb. 7, 1807, note on (Henry). p. 545	AZ9.0:27
p. 414	A 29 6 · 24
p. 414Cold storage:	1120.0.21
Mechanical, for fruit (Clark), 1900, p. 12	A1.9:119
On the farm (Clark). 1900. p. 9	A1.9:119
Cold-wave bulletins	<b>A29.9</b> :
Cold waves:	100.007
Atmospheric, depth of (Abbe). 1899. p. 62.	A29.6:27
Florida. 1886. p. 23.  January and February, 1864, notes on (Abbe). p. 114.	A21.9:24 A 90 A 90
Middle Gulf coast (Garriott). 1895. p. 334.	A 29.6:23
Origin of (Abbe). 1894. p. 511	A29.6:22
Possibility of giving warnings of, to stock-raising interests 48	
hours in advance (Brandenburg). 1899. p. 33	A29.3:24
same (Glass). 1899. p. 35	A29.3:24
Southwest (Hazen). 1899. p. 291	A29.6:27
Warnings of, for benefit of transportation companies (Smith).	A 90 2.94
1899. p. 37 Year 1898. Report on (Garriott). p. 208	A1 1.898
same. p. 27	A29.1:898
Cole, Frank N. Barometric pressure, diurnal variations of. 1892	A29.3:6
Coleman, Clarence. What our bad roads cost us. 1895. p. 17	A22.3:11
Coleoptera:	
California, notes on habits of some (Coquillett). 1892. p. 260	A9.7:4
Certain species of, that attack useful plants, notes on (Chittenden).	10.00
1897. p. 20 Habits of some species of, observed in San Diego County, Calif.	A9.6:9
(Risinfall) 1892 n 22	A9.7:5
(Blaisdell). 1892. p. 33  Hymenopterous parasites of, observations on some (Chittenden).	110.1.0
1893. p. 247	A9.7:5
Me also beeties.	
Coleopterous enemies of grapevine, some (Chittenden). 1895. p. 384.	A9.7:7
Colima, Mexico, plants, collection of, made in, by Edward Palmer,	4075
in the years 1890 and 1891 (Rose). 1895. p. 293	A6.5:1

	Classification no
College faculty meetings (Scott). 1895. p. 80	A10.3:24
College Station, Md., sorghum-sugar experiments at (Wiley). 1889.	A7.3:26
College work section, Association of American Agricultural Colleges and Experiment Stations, report of:	
1890. p. 139	A10.5:3
1891. p. 105	
1892. p. 24 1893. pp. 25, 92	A10.3:16
1894. p. 79	
1895. pp. 32, 98	A10.3:30
1896. pp. 16, 69	A10.3:41
1897. p. 55 1898. p. 87	A10.3:49 A10.3:65
1899. p. 65	
1900. p. 99	
1901. p. 67	A10.3:115
Colleges:  Meteorology in, to what extent is it taught at present; should it	
be offered as an undergraduate or as a postgraduate course?	
(Loveland), 1902, p. 90	A29.3:31
See also Agricultural collèges — Universities. Collèges and universities:	
State, relation of churches to (Harris). 1899. p. 100	A10.3:65
Weather Bureau and, notes on (Abbé). 1898. p. 568	
See also Agricultural colleges — Cornell University — Harvard	
University—Johns Hopkins University— Kansas University— Lake Erie College — Maine State College — Minnesota — Uni-	
versities.	
Collier, Peter:	
Analytical work done on sorghum and cornstalks by chemical division, July-December, 1880	A1.6:33
division, July-December, 1880	A1.8:27
See also, as joint author, Vasey, George.	
See also for reports as chemist, Chemistry Bureau, Agriculture	A7.1:
Department, 1878–1882	A7.1:
lishing results of. 1902. p. 39	A10.3:110
Collins, G. N. Seeds of commercial saltbushes. 1901	A6.3:27
Collins, Jerome J. Marsh lands, reclamation of, extracts from report on. p. 600	A1.1:870
Collins, P. V. Address of, before national road conference, July,	
1894. p. 35 Collins, V. D. Morocco, agriculture of. p. 499	A22.3:10
Collins, V. D. Morocco, agriculture of. p. 499	A1.1:862
Address of—	
before Association of Official Agricultural Chemists. 1885.	
p. 21	A7.3:7
before convention of Association of Agricultural Colleges and Experiment Stations, Washington, D. C., July 8, 1885	A1.8:37
before convention of agriculturists. 1885. p. 5	A1.7:9
before National Cattle Growers' Convention, Kansas City,	A 1 O. 40
Mo. 1887	A1.8:43
duction to report on. 1889. p. 5.	A10.3:1
Animals, domestic, contagious, infectious, and communicable dis-	
eases among, rules of Department of Agriculture for suppression of. 1887	A1.8:44
Beef supply, American, address on, before 3d National Conven-	71.0. <del>11</del>
tion of Stockmen, Chicago, Nov., 1885	A1.8:38
Business methods in Agriculture Department. 1888	A1.2:C71 A13.4:4
Chestnut oak for railroad ties, circular on. 1887	ALUITIT
1887	A28.4:3
Dressed-meat traffic of U.S., answers to questions regarding.	A 4 1 -000
p. 277Timber, increasing durability of. 1887	A4.1:886 A13.4:3
See also, for reports as Commissioner of Agriculture, 1885–1888	
- · · · · · · · · · · · · · · · · · · ·	

	Index (Versides to
Galarra Common American Irial anniaria (Wassan) 1905 - 14 (	Classification no.
Cologne, Germany, American dried apples in (Wamer). 1895. p. 14.	A7.3:48
Colombia, statistics of. 1890. p. 569	AZ1.9:28
See also Colon. Colon, Colombia, rainfall at, note on (Abbe.) 1893-95. p. 362	A 90 . 9.9.
Colonization:	A25.0.20
Essay on. p. 569	A1 1.870
Vineland as a lesson in. p. 410.	A1.1:869
Color, relation of temperature to, note on (Abbe). 1900. p. 18	A29.6:28
Colorado:	
Agricultural progress of. 1869. p. 226 Agricultural statistics of. 1869. p. 296*	A27.9:7
Agricultural statistics of. 1869. p. 296*	A27.9:7
Agriculture of, notes on—	107.0
1866. p. 442 1869 (Thomas). p. 379*	A27.9:4
Apid regions of registilities of realemation of by utilizing under	AZ1.9:1
Arid regions of, possibilities of reclamation of, by utilizing underlying waters (Miller). 1891. pt. 1, p. 301	A 15 9.T=7
Artesian well investigation, field work (Carpenter). 1890. p. 173.	
Cattle and sheep industry of (Kennedy). p. 367	A4.1:891-2
Cattle industry of (McNeely). p. 377	
Chimate of, and its effect on trees (Parsons). 1888. p. 221	
Crop year in. 1890. p. 520	A27.9:28
Eastern, artesian basins of, geological conditions of (Van Diest). 1890. p. 87  Entomological notes from, report on (Gillette). 1900. p. 76	
1890. p. 87	A15.2:Ar7
Entomological notes from, report on (Gillette). 1900. p. 76	A9.6:26
Evotomys from, description of new (Merriam). 1890. p. 23	
Forest conditions of Rocky Mountains in (Ensign). p. 41	A10.0.2 AQ Q.O
Grasses of arid districts of, investigation of (Vasey). 1886	
Grasshopper disease in (Gillette). 1896. p. 89.	
Insect notes—	2201010
1901 (Gillette). p. 51	A9.6:31
1902 (Caudell). p. 35	A9.6:38
Insects, few, that have been unusually abundant in, this year	
(Gillette). 1897. p. 77	A9.6:9
Irrigation in, practical. p. 254.	A1.1:871
Irrigation statistics and progress (Carpenter). 1890. p. 181	
Lamb feeding in (Clark). p. 275  Live-stock industry of (Standart). p. 326	A4.1:885
same (McNeely). p. 425.	A4.1:889-90
Northern, agriculture of, notes on (Thomas). 1869. p. 284*	A27.9:7
Plants from, descriptions of new (Holzinger). 1893. p. 286	A6.5:1
Rain in, seasonal, note on (Abbe). 1900. p. 155	A29.6:28
River discharges in (Abbe). 1899. p. 314.	A29.6:27
Rocky Mountain locust in, in 1880 (Chipman). App. p. 55	
Seasonal forecasts in, 1872–1899, notes on (Abbe). p. 206	A29.6:28
Sheep industry of, in 1897 (McNeely). p. 377	
Snowfall in (Abbe). 1897. p. 210	A 10 3.58
Water supply of, for season of 1900, as depending on snowfall	A10.0.00
(Brandenburg). p. 493	A29.6:28
See also Amity Canal — Arkansas Valley — Cache la Poudre Val-	
ley — Colorado Springs — Custer County — Denver — Fort Col-	
lins — Fort Lyon — Grand Valley — Jefferson County.	
Colorado grasshopper. See Grasshopper, hateful.	
Colorado potato beetle:	AO 9.10
In Georgia, note on. 1886. p. 32	Ay.3:12
1871 p. 332	A 27 9-9
1874 (Glover). p. 324	A27.9:12
1871. p. 332 1874 (Glover). p. 324 Two methods of destroying (Glover). 1875. p. 445	A27.9:13
See also Grosbeak, rose-breasted.	
Colorado Springs, Colo., meteorological records at, brief discussion	
of hourly, from November, 1892, to September, 1894 (Morrill).	100 1 000
Coloredo Wellow Towns florid in special person April 7 April 7	A29.1:896
Colorado Valley, Texas, floods in, special report on, April 7 to 17, 1900, and other floods during same period (Cline). p. 146	A 20 A . 20
p. 140	A20.U.20

•	Classification no.
Coloring matter for foods, analysis of, provisional method for (Tolman). 1902. p. 111	A7.3:65
Columbia River: Flood in, 1894 (Abbe). p. 510 Possibility of high water in, from melting snow in mountains	A29.6:22
(Pague). 1899. p. 252	A29.6:27
(Coulter and Rose). 1896. p. 575.  Columbus, Christopher. Discovery of magnetic declination made	A6.5:3
by (Bartelli). 1895. p. 486.  Columbus, Ohio, agriculture school, speech of James Wilson at close	A29.3:11 <sup>3</sup>
of, July 7, 1902	A1.2:W69
of native or black honeybee. p. 530	A1.1:863 A1.9:133
note on (Abbe). 1900. p. 249	A29.6:28
sults obtained from use of chloride of aluminum and proposal of new remedies against. 1890. p. 94	A6.3:11
Commelinacese, new genus of, Treleasea (Rose). 1899. p. 207 Commerce:	<b>A6.5:5</b>
Between United States and Mexico, for 1873, 1878, 1883, 1888, and 1893. p. 492	A27.9:32
Highways of (Haupt). 1901. p. 56	A22.3:21 A9.7:7 A27.9:29
Work of meteorologist for benefit of (Bigelow). 1899. p. 71 Commercial bodies, relations of weather officials with, how pro-	
moted (Beals). 1899. p. 69	A29.3:24 A29.3:24
Commercial butter cultures used in connection with pasteurized cream (Allen). 1898. p. 21	A1.9:103
Commercial fertilizers. See Fertilizers, chemical analysis, methods of. Commercial plantations, hardy catalpa in (Hall). 1902	A13.3:37
Commercial saltbushes, seeds of (Collins). 1901	
(Abbe). p. 419	A29.6:27
Cotton insects, report upon. 1879	
same. p. 195. Sugar cane, insects injurious to. 1881.	A9.1:882 A1.6:35
See also, for reports as Entomologist, Agriculture Department, 1880 and 1881	A9.1
Constock's rotary spader, description of, 1865. No. 5. p. 34	A27.9:3
Conchyliastes musicus. See Mosquito. Condensation, cloudy, notes on (Abbe). 1897. p. 543	A29.6:25 A29.1:891.8
Condensed milk. See Milk. Condimental and medicinal cattle and poultry foods. 1901. p. 22	
Condimental feeding stuffs, use of, in feeding animals. 1898. p. 25. Condiments. See Spices and condiments.	A1.9:73
Conduct and the weather, report on (Dexter). 1899. p. 353	<b>A27.9:9</b>
Cone-nose, report on (Marlatt). 1896. p. 32  Conestoga horse, brief history of (Strohm). p. 175	A9.6:4 A1.1:863
Confections, adulteration of (Wiley and others). 1892. p. 633  Conformation of beef and dairy cattle (Soule). 1902	A1.9:143
Conger, Norman B.: Great Lakes, wrecks and casualties on, during 1895, 1896, and 1897. Thunderstorms, forecasting of, during summer of 1893	
Tornadoes of May 25, 1896, in Michigan, report on. p. 156  Water temperatures of Great Lakes. 1899. p. 352	A29.6:24

	Index Classification no.
Conger, Norman B.—Continued	
Weather forecasts best calculated to aid maritime interests of	1
Great Lakes; method of reaching those interested. 1899. p. 20.	
Weather forecasts in street cars. 1902. p. 206. Congress, members of, circular letter to, requesting cooperation with	A29.3:31
Office of Road Inquiry Agriculture Department	   <b>A 22 A :</b> 3
Office of Road Inquiry, Agriculture Department	1122.4.0
p. 23	A22.3:25
p. 23 Congressional reprints of agricultural publications for sale by Super-	1 01 0 D00
intendent of Documents. 1897	A21.2:R29
Coniomycetes fungi. See Fungi.	A20.0.20
Conn. Herbert William:	
Dairy bacteriology. 1895	A10.3:25
Milk, fermentations of. 1892.	A10.3:9
Connecticut: Commercial fertilizers in, law on. 1870. p. 151	A 27 9-8
Farm resources and products of. 1868. p. 9.	A27.9:6
Irrigation in, notes (Phelps and Voorhees). 1897	A10.3:36
Nursery inspection in (Britton). 1899. p. 131	A10.3:65
Road improvement in, extract from governor's message (Louns-	A 00 A 29
bury). p. 2. San Jose scale in (Britton). 1898. p. 81	A22.4:33 A9 6:17
Snows in, early, from 1783 to 1882 (Abbe). p. 418	A29.6:22
See also Hartford — New Haven — Thompson.	
Connecticut Experiment Station:	1.00000
Address on (Atwater). 1901. p. 51	A10.3:99 A99 5.7
Connecticut River, tobacco production on. 1865. No. 2. p. 18	A27.9:3
Connecticut tobacco:	11271010
Bulk fermentation of (Floyd). n.d	A26.4:5
Physiological studies of (Loew). 1900	A1.8:65
Production of, on Connecticut River. 1865. No. 2. p. 18 Shade-grown, to be sold at auction May 1, 1902, at Hartford,	
Conn., catalogue of. 1902.	A26.2:T55
See also Tobacco.	
Connecticut Valley:	100 15
Soil map of, description of. 1900	A.20.4:7 A.1. Q.64
Sumatra tobacco, growing under shade in (Whitney). 1902	A26.3:20
Connick, H. D. H. Yuba River, use of water of. 1901. p. 130	A10.3:100
Connor, Patrick:	
Evening, character of the. 1898. p. 306.  Ferrel, William, short biography of. 1898. p. 457.	A29.6:26
Meteorology for use of schools, primary work on. 1899. p. 102.	A29.0:20 A20.3:24
Weather forecasts, long-range; can they be made with sufficient	
precision to be of general utility? 1899. p. 44	A29.3:24
Conservatory, coccinellidæ in, experiment with (Webster). 1890.	10 7.0
p. 363. Constable, Howard. Wood preservation. 1887. p. 92.	A9.7:2 A12 2:1
Same, reprint. 1894. p. 276.	A13.3:9
Constants, phenologic or thermal (Ihne). 1895. p. 427	A29.3:11 <sup>2</sup>
Consular correspondence of Agriculture Department (Dodge). p.	
487 Consuls and consular agents, reports of, on cotton crop and its ene-	A1.1:864
mies in Mexico, Central and South America, and West Indies.	
	A8.1:4
1885. app. p. 59	
under. Contributions from II. S. National Horbarium	AQ E.
Contributions from U. S. National Herbarium  Converse, F. A. Address of welcome, American Association of Far-	A6.5:
mers' Institute Workers, held at Buffalo, N. Y., Sept. 18 and	
19, 1901. 1902. p. 11	A10.3:110
Convict labor:	A 00 0 1 <i>0</i>
Highways, use on (Stone). 1895. p. 11	AZZ.3.10 A22 3.18
Public roads, use on (Graham). 1895. p. 34	A22.3:11
, , , , , , , , , , , , , , , , , , , ,	<del>-</del>

Convict labor—Continued Road building, use in (Lyon). 1901. p. 90. Road improvement in North Carolina, use in (Holmes). 1895. p. 5. Southern States, road building with (Holmes). 1901. p. 319. A22.3:16 Conway Springs, Kans., sorghms sugar experiments at: 1888 (Deming). p. 280. A1.1:888 A3.10:888 (Deschweinitz). p. 284. A1.1:888 A3.20:1888 (Wiley). p. 12. 1888 (Wiley). p. 12. 1889 (Wile	Index	Classification no.
Road building, use in (Lyon), 1901, p. 90.   A22.3:21	Convict labor Continued	CIESSIECECIÓE EO.
P. 5.   A22.3.16	Road building, use in (Lyon), 1901, p. 90.	A22.3:21
Conway Springs, Kans., sorghum sugar experiments at:   1886 (Deming). p. 280   A7.3:20   1888 (De Schweinitz). p. 284   A7.3:20   1888 (Wiley). pp. 12.   A7.3:20   1888 (Wiley). pp. 12.   A7.3:20   1888 (Wiley). pp. 12.   A7.3:20   1889 (Wiley). pp. 12.   A7.3:26   1898 (De Schweinitz). p. 65   A7.3:26   1898 (De Schweinitz). p. 67   A9.7:3   1898 (De Schweinitz). p. 67   A9.7:3   1898 (De Schweinitz). p. 67   A9.7:3   1892 (De Schweinitz). p. 67   A9.7:3   1892 (De Schweinitz). p. 67   A9.7:3   1892 (De Schweinitz). p. 67   A1.8:22   1893 (De Schweinitz). p. 67   A8.7:4   1892 (De Schweinitz). p. 68   A8.3:25   1898 (De Schweinitz). p. 68   A8.3:26   1898 (De Schweinitz). p.	p. 5	A22.3:16
1886 (De Schweinitz)   224	Southern States, road building with (Holmes). 1901. p. 319 Conway Springs, Kans., sorghum sugar experiments at:	A1.10:901
Same, rearranged. p. 74	1888 (Deming). p. 280	A1.1:888
Same, rearranged. p. 74	8ame, p. 63	A7.3:20
1888 (Wiley) p. 12	1888 (De Schweinitz). p. 284	A1.1:888
1889 (De Schweinitz). p. 65 Cook, A. J.: Agricultural experiments in 1891, report of. p. 83 Entomologists, work of, in experiment stations. 1891. p. 212 Entomology, teaching, report on. 1890. p. 107. Kerosene emulsion and arsenites, some historic notes on. 1891. p. 62 Poplar gonioctena, report on. 1891. p. 67 Poplar gonioctena, report on. 1891. p. 67 Cook, George H. Agricultural education in New Jersey. 1882. p. 7 See also, as joint anthor, Atwater, Wilbur Olin. Cook, Orator Fuller: Agriculture in tropical islands of United States. 1901. p. 349. Animal industry of Porto Rico, notes on. p. 663 Chayote, a tropical vegetable. 1901. p. 257. A6.4:28 Cooa palm, origin and distribution of. 1901. p. 257. A6.5:7 Rubber cultivation for Porto Rico. 1900. Seed and plant introduction section, Agriculture Department, circular relative to. 1899. A6.3:25 Cook, S. R. Atmosphere, planetary, permanency of, according to kinetic theory of gases. 1902. p. 401 Cook County, Ill., tornado of May 25, 1896, in (Abbe). p. 168. A29.6:24 Cook Inlet region, Alaska, natural history of (Osgood). 1901. p. 51. Cooke, Wells W.: Agriculture, methods of instruction in teaching. 1896. p. 39. Bird migration in Mississippi Valley; edited and revised by Clinton Hart Merriam. 1888. A29.6:24 Cooking, George W.: Gravel roads in Hennepin County, Minn., method of construction and cost of. 1901. p. 96 Hydrology of Lake Minnetonka watershed. 1899. p. 14 Cooley, Robert Allen. Massachusetts coccide, notes on some. 1898. p. 61. Coolidge, J. H. Farmere' institute work accomplished in Illinois. 1902. p. 20 Coombs, F. E. Calumet Plantation Sugar Experiment Station, Patterson, La, experiments at. 1892. p. 48 Copper-gypus and serendy for grape mildew (Nessler). 1891. p. 73. A22.5:26 Copper-gypus as remedy for grape mildew (Nessler). 1891. p. 73. A28.5:6 Copper-gypus and serendy for grape mildew (Nessler). 1891. p. 73. A28.5:6 Copper-goda as remedy for grape mildew (Nessler). 1891. p. 73. A28.5:6 Copper-goda as remedy for grape mildew (Nessler). 1891. p. 73. A28.5:6 C	1999 (Wilow) - 19	A7.3:20
1889 (De Schweinitz). p. 65 Cook, A. J.: Agricultural experiments in 1891, report of. p. 83 Entomologists, work of, in experiment stations. 1891. p. 212 Entomology, teaching, report on. 1890. p. 107. Kerosene emulsion and arsenites, some historic notes on. 1891. p. 62 Poplar gonioctena, report on. 1891. p. 67 Poplar gonioctena, report on. 1891. p. 67 Cook, George H. Agricultural education in New Jersey. 1882. p. 7 See also, as joint anthor, Atwater, Wilbur Olin. Cook, Orator Fuller: Agriculture in tropical islands of United States. 1901. p. 349. Animal industry of Porto Rico, notes on. p. 663 Chayote, a tropical vegetable. 1901. p. 257. A6.4:28 Cooa palm, origin and distribution of. 1901. p. 257. A6.5:7 Rubber cultivation for Porto Rico. 1900. Seed and plant introduction section, Agriculture Department, circular relative to. 1899. A6.3:25 Cook, S. R. Atmosphere, planetary, permanency of, according to kinetic theory of gases. 1902. p. 401 Cook County, Ill., tornado of May 25, 1896, in (Abbe). p. 168. A29.6:24 Cook Inlet region, Alaska, natural history of (Osgood). 1901. p. 51. Cooke, Wells W.: Agriculture, methods of instruction in teaching. 1896. p. 39. Bird migration in Mississippi Valley; edited and revised by Clinton Hart Merriam. 1888. A29.6:24 Cooking, George W.: Gravel roads in Hennepin County, Minn., method of construction and cost of. 1901. p. 96 Hydrology of Lake Minnetonka watershed. 1899. p. 14 Cooley, Robert Allen. Massachusetts coccide, notes on some. 1898. p. 61. Coolidge, J. H. Farmere' institute work accomplished in Illinois. 1902. p. 20 Coombs, F. E. Calumet Plantation Sugar Experiment Station, Patterson, La, experiments at. 1892. p. 48 Copper-gypus and serendy for grape mildew (Nessler). 1891. p. 73. A22.5:26 Copper-gypus as remedy for grape mildew (Nessler). 1891. p. 73. A28.5:6 Copper-gypus and serendy for grape mildew (Nessler). 1891. p. 73. A28.5:6 Copper-goda as remedy for grape mildew (Nessler). 1891. p. 73. A28.5:6 Copper-goda as remedy for grape mildew (Nessler). 1891. p. 73. A28.5:6 C	1880 (Wiley) pp. 12	A7.3:20 A7.2:98
Agricultural experiments in 1891, report of. p. 83	1889 (De Schweinitz). p. 65	A7.3:26
Entomologists, work of, in experiment stations. 1891. p. 212. A9.7:3 Entomology, teaching, report on. 1890. p. 107. A9.7:3 Kerosene emulsion and arsenites, some historic notes on. 1891. p. 62. A9.7:4 Cook, George H. Agricultural education in New Jersey. 1882. p. 7. A9.7:4 Cook, George H. Agricultural education in New Jersey. 1882. p. 7. A1.8:22 See also, as joint author, Atwater, Wilbur Olin. Cook, Orstor Fuller: Agriculture in tropical islands of United States. 1901. p. 349. A1.10:901 Animal industry of Porto Rico, notes on. p. 663. A4.1:899 Chayote, a tropical vegetable. 1901. A6.3:28 Cocoa palm, origin and distribution of. 1901. p. 257. A6.5:7 Rubber cultivation for Porto Rico. 1900. A6.3:28 Seed and plant introduction section, Agriculture Department, circular relative to. 1899. A6.3:25 Cook, S. R. Atmosphere, planetary, permanency of, according to kinetic theory of gases. 1902. p. 401. A6.3:25 Cook County, Ill., tornado of May 25, 1896, in (Abbe). p. 168. A29.6:30 Cook County, Ill., tornado of May 25, 1896, in (Abbe). p. 168. A29.6:34 Cook Inlet region, Alaska, natural history of (Osgood). 1901. p. 51. Cooke, Wells W.: Agriculture, methods of instruction in teaching. 1896. p. 39. Bird migration in Mississippi Valley; edited and revised by Clinton Hart Merriam. 1888. Milk, sour, analysis of. 1890. p. 22. A7.3:31 Cooking: Diminished pressure on, effects of (Abbe). 1900. p. 160. A29.6:28 Instruction in, in public schools of New York City, history and present status of (Hogan). 1899. P. 61 Cooley, George W.: Gravel roads in Hennepin County, Minn., method of construction and cost of. 1901. p. 96 A29.6:27 Cooper, Ellwood. Olive industry. 1892. p. 130. A29.6:27 Cooper, Ellwood. Olive industry. 1892. p. 130. A29.6:27 Cooper, Ellwood. Olive industry. 1892. p. 130. A29.6:25 Copper-gypsum as remedy for grape mildew (Nessler). 1891. p. 73. A28.5:6 Copper sulphate to prevent attacks of fungi (Evans). 1896. A28.5:6 Copper sulphate to prevent attacks of fungi (Evans). 1896.		A 0 9.00
Entomology, teaching, report on. 1890. p. 107.  Kerosene emulsion and arsenites, some historic notes on. 1891. p. 62	Enterpolarists work of in experiment stations 1901 n 212	A9.5:20
p. 62 Poplar gonioctens, report on. 1891. p. 67 Cook, George H. Agricultural education in New Jersey. 1882. p. 7 Nee also, as joint author, Atwater, Wilbur Olin. Cook, Orator Fuller: Agriculture in tropical islands of United States. 1901. p. 349. A1.10:901 Animal industry of Porto Rico, notes on. p. 663 Chayote, a tropical vegetable. 1901. 1901. p. 257. A6.3:28 Chayote, a tropical vegetable. 1901. p. 257. A6.3:28 Chayote, a tropical vegetable. 1901. p. 257. A6.3:28 Chayote, a tropical vegetable. 1901. p. 257. A6.5:7 Rubber cultivation for Porto Rico. 1900. A6.3:28 Cocoa palm, origin and distribution of. 1901. p. 257. A6.5:7 Rubber cultivation for Porto Rico. 1900. A6.3:28 Cocoa palm, origin and distribution of. 1901. p. 257. A6.5:7 Rubber cultivation for Porto Rico. 1900. A6.3:28 Cocoa palm, origin and distribution of. 1901. p. 257. A6.5:7 Rubber cultivation for Porto Rico. 1900. A6.3:28 Cocoa palm, origin and distribution of. 1901. p. 201. A6.3:28 Cocoa palm, origin and distribution of. 1901. p. 201. A6.3:28 Cocoa palm, origin and distribution of. 1901. p. 201. A29.6:30 Coco Keells under the part of the	Entomology teaching report on 1800 n 107	A0.7.3
p. 62 Poplar gonioctens, report on. 1891. p. 67 Cook, George H. Agricultural education in New Jersey. 1882. p. 7 Nee also, as joint author, Atwater, Wilbur Olin. Cook, Orator Fuller: Agriculture in tropical islands of United States. 1901. p. 349. A1.10:901 Animal industry of Porto Rico, notes on. p. 663 Chayote, a tropical vegetable. 1901. 1901. p. 257. A6.3:28 Chayote, a tropical vegetable. 1901. p. 257. A6.3:28 Chayote, a tropical vegetable. 1901. p. 257. A6.3:28 Chayote, a tropical vegetable. 1901. p. 257. A6.5:7 Rubber cultivation for Porto Rico. 1900. A6.3:28 Cocoa palm, origin and distribution of. 1901. p. 257. A6.5:7 Rubber cultivation for Porto Rico. 1900. A6.3:28 Cocoa palm, origin and distribution of. 1901. p. 257. A6.5:7 Rubber cultivation for Porto Rico. 1900. A6.3:28 Cocoa palm, origin and distribution of. 1901. p. 257. A6.5:7 Rubber cultivation for Porto Rico. 1900. A6.3:28 Cocoa palm, origin and distribution of. 1901. p. 201. A6.3:28 Cocoa palm, origin and distribution of. 1901. p. 201. A6.3:28 Cocoa palm, origin and distribution of. 1901. p. 201. A29.6:30 Coco Keells under the part of the	Karasana amulgian and arganites some historic notes on 1801	A0.7.0
Poplar gonioctens, report on. 1891. p. 67 Cook, Grorge H. Agricultural education in New Jersey. 1882. p. 7.  Nee also, as joint author, Atwater, Wilbur Olin. Cook, Orator Fuller: Agriculture in tropical islands of United States. 1901. p. 349. Animal industry of Porto Rico, notes on. p. 663. Asimal industry of Porto Rico, notes on. p. 663. Chayote, a tropical vegetable. 1901. Asimal industry of Porto Rico. 1900. Cocoa palm, origin and distribution of. 1901. p. 257. Rubber cultivation for Porto Rico. 1900. See ad and plant introduction section, Agriculture Department, circular relative to. 1899. Shade in coffee culture. 1901. Cook, S. R. Atmosphere, planetary, permanency of, according to kinetic theory of gases. 1902. p. 401. Cook County, Ill., tornado of May 25, 1896, in (Abbe). p. 168. A5.3:25 Cooke, Wells W.: Agriculture, methods of instruction in teaching. 1896. p. 39. Bird migration in Mississippi Valley; edited and revised by Clinton Hart Merriam. 1888. Milk, sour, analysis of. 1890. p. 22. Cooking: Diminished pressure on, effects of (Abbe). 1900. p. 160. Instruction in, in public schools of New York City, history and present status of (Hogan). 1899. Cooley, George W.: Gravel roads in Hennepin County, Minn., method of construction and cost of. 1901. p. 96. Coology, George W.: Gravel roads in Hennepin County, Minn., method of construction and cost of. 1901. p. 96. Coology, George W.: Coowns, F. E. Calumet Plantation Sugar Experiment Station, Patterson, La., experiments at. 1882. p. 43. Cooper, Ellwood. Olive industry. 1892. p. 130. See also as collector, Coquillett, Daniel William. Coordinate axes, standard system of, for magnetic and meteorological observations and computations (Eigelow). 1897. p. 201. Copper sulphate to prevent attacks of fungi (Evans). 1891. p. 73. Copper Robert Allen. Massachusette occides on some. 1891. p. 73. Copper sulphate and germination; treatment of seed with copper sulphate to prevent attacks of fungi (Evans). 1891. p. 73. Copper sulphate to prevent attacks of fungi (Evans). 1896	n 69	AQ 7.4
Cook, George H. Agricultural education in New Jersey. 1882. p. 7. Al.8:22  See also, as joint author, Atwater, Wilbur Olin.  Cook, Orator Fuller: Agriculture in tropical islands of United States. 1901. p. 349 Animal industry of Porto Rico, notes on. p. 663 Coco aplm, origin and distribution of. 1901. p. 257 Rubber cultivation for Porto Rico. 1900 Seed and plant introduction section, Agriculture Department, circular relative to. 1899 Shade in coffee culture. 1901 Cook, S. R. Atmosphere, planetary, permanency of, according to kinetic theory of gases. 1902. p. 401 Cook County, Ill., tornado of May 25, 1896, in (Abbe). p. 168 Agriculture, methods of instruction in teaching. 1896. p. 39 Bird migration in Mississippi Valley; edited and revised by Clinton Hart Merriam. 1888 Milk, sour, analysis of. 1890. p. 22 Agriculture, methods of instruction in teaching. 1896. p. 39 Bird migration in Mississippi Valley; edited and revised by Clinton Hart Merriam. 1888 Af3.3:2  Milk, sour, analysis of. 1890. p. 22 Instruction in, in public schools of New York City, history and present status of (Hogan). 1899  Cooley, George W.: Gravel roads in Hennepin County, Minn., method of construction and cost of. 1901. p. 96 Coombs, F. E. Calumet Plantation Sugar Experiment Station, Patterson, Ls., experiments at. 1892. p. 48  See also as collector, Coquillett, Daniel William. Coordinate axes, standard system of, for magnetic and meteorological observations and computations (Bigelow). 1897. p. 201. Copper suphate and germination; treatment of seed with copper sulphate to prevent attacks of fungic (Chester). 1891. p. 73 Copper sulphate and germination; treatment of seed with copper sulphate to prevent attacks of fungic (Evans). 1896	Poplar conjectors report on 1891 n 67	AQ 7.4
See also, as joint author, Atwater, Wilbur Olin. Cook, Orator Fuller: Agriculture in tropical islands of United States. 1901. p. 349 Animal industry of Porto Rico, notes on. p. 663 Chayote, a tropical vegetable. 1901 Chayote, a tropical vegetable. 1901 Chayote, a tropical vegetable. 1901 Cocoa palm, origin and distribution of. 1901. p. 257 Rubber cultivation for Porto Rico Seed and plant introduction section, Agriculture Department, circular relative to Shade in coffee culture. 1901 Cook, S. R. Atmosphere, planetary, permanency of, according to kinetic theory of gases Shade in coffee culture. 1901 Cook County, Ill., tornado of May 25, 1896, in (Abbe) Agriculture, methods of instruction in teaching Agriculture, methods of instruction for Cooke, Wells W.: Agriculture, methods of instruction in teaching Agriculture, methods of instruction in teaching Agriculture, methods of instruction in teaching Agriculture, methods of New York City, history and present status of (Hogan) Agriculture, methods of New York City, history and present status of (Hogan) Agriculture, methods of instruction in teaching Agriculture, methods of New York City, history and present stat	Cook George H. Agricultural education in New Jersey. 1882 n. 7	A1.8.22
Agriculture in tropical islands of United States. 1901. p. 349	See also, as joint author, Atwater, Wilbur Olin.	111.0.32
Animal industry of Porto Rico, notes on. p. 663. Chayote, a tropical vegetable. 1901. Cocy a palm, origin and distribution of. 1901. p. 257. Rubber cultivation for Porto Rico. 1900. Seed and plant introduction section, Agriculture Department, circular relative to. 1899. Shade in coffee culture. 1901. Cook S. R. Atmosphere, planetary, permanency of, according to kinetic theory of gases. 1902. p. 401. Cook County, Ill., tornado of May 25, 1896, in (Abbe). p. 168. Cook Rells W.: Agriculture, methods of instruction in teaching. 1896. p. 39. Bird migration in Mississippi Valley; edited and revised by Clinton Hart Merriam. 1888. Milk, sour, analysis of. 1890. p. 22. Cooking: Diminished pressure on, effects of (Abbe). 1900. p. 160. Instruction in, in public schools of New York City, history and present status of (Hogan). 1899. Cooley, George W: Gravel roads in Hennepin County, Minn., method of construction and cost of. 1901. p. 96. Hydrology of Lake Minnetonka watershed. 1899. p. 14. Coolidge, J. H. Farmers' institute work accomplished in Illinois. 1902. p. 20. Combs, F. E. Calumet Plantation Sugar Experiment Station, Patterson, La., experiments at. 1892. p. 48. Cooper, Ellwood. Olive industry. 1892. p. 130. See also as collector, Coquillett, Daniel William. Coordinate axes, standard system of, for magnetic and meteorological observations and computations (Bigelow). 1897. p. 201. Copper gypsum as remedy for grape mildew (Nessler). 1891. p. 73. Copper rountry, Alaeka, notes on (Abercrombie). p. 307. A29.6:25 Copper in wines (Fallot). 1890. p. 96. A7.3:31 A7.3:37 A7.3:39 A7.3:31 A7.3:37 A7.3:37 A7.3:37 A7.3:37 A7.3:37 A7.3:39 A7.3:31 A7.3:37 A7.3:37 A7.3:37 A7.3:37 A7.3:37 A7.3:37 A7.3:39 A7.3:31 A7.3:39 A7.3:31 A7.3:31 A7.3:31 A7.3:37 A		A1.10:901
Chayote, a tropical vegetable. 1901	Animal industry of Porto Rico, notes on. p. 663	A4.1:899
Cocoa palm, origin and distribution of. 1901. p. 257		
Rubber cultivation for Porto Rico. 1900.  Seed and plant introduction section, Agriculture Department, circular relative to. 1899.  Shade in coffee culture. 1901.  Cook, S. R. Atmosphere, planetary, permanency of, according to kinetic theory of gases. 1902. p. 401.  Cook County, Ill., tornado of May 25, 1896, in (Abbe). p. 168.  Cook Inlet region, Alaska, natural history of (Osgood). 1901. p. 51.  Cooke, Wells W.:  Agriculture, methods of instruction in teaching. 1896. p. 39.  Bird migration in Mississippi Valley; edited and revised by Clinton Hart Merriam. 1888.  Milk, sour, analysis of. 1890. p. 22.  Milk, sour, analysis of. 1890. p. 22.  Milk, sour, analysis of (Abbe). 1900. p. 160.  Instruction in, in public schools of New York City, history and present status of (Hogan). 1899.  Cooley, George W.:  Gravel roads in Hennepin County, Minn., method of construction and cost of. 1901. p. 96.  Hydrology of Lake Minnetonka watershed. 1899. p. 14.  A22.3:21  A9.6:17  Cooldege, J. H. Farmers' institute work accomplished in Illinois. 1902. p. 20.  Coombs, F. E. Calumet Plantation Sugar Experiment Station, Patterson, La., experiments at. 1892. p. 130.  A29.6:25  A9.6:17  Cooper, Ellwood. Olive industry. 1892. p. 130.  A9.6:17  Copper, george mildew (Nessler). 1891. p. 73.  Copper in wines (Fallot). 1890. p. 96.  A29.6:25	Cocoa palm, origin and distribution of. 1901. p. 257	A6.5:7
Seed and plant introduction section, Agriculture Department, circular relative to. 1899	Rubber cultivation for Porto Rico. 1900	A6.4:28
circular relative to. 1899	Seed and plant introduction section, Agriculture Department,	
Cook, S. R. Atmosphere, planetary, permanency of, according to kinetic theory of gases. 1902. p. 401  Cook Courty, III., tornado of May 25, 1896, in (Abbe). p. 168. A29.6:24  Cook Inlet region, Alaska, natural history of (Osgood). 1901. p. 51. Cooke, Wells W.:  Agriculture, methods of instruction in teaching. 1896. p. 39. Bird migration in Mississippi Valley; edited and revised by Clinton Hart Merriam. 1888. A10.3:30  Bird migration in Mississippi Valley; edited and revised by Clinton Hart Merriam. 1888. A5.3:2  Milk, sour, analysis of. 1890. p. 22. A7.3:31  Cooking:  Diminished pressure on, effects of (Abbe). 1900. p. 160. A29.6:28  Instruction in, in public schools of New York City, history and present status of (Hogan). 1899. A10.3:56  Cooley, George W.:  Gravel roads in Hennepin County, Minn., method of construction and cost of. 1901. p. 96. A22.3:21  Hydrology of Lake Minnetonka watershed. 1899. p. 14. A29.6:27  Cooley, Robert Allen. Massachusetts coccidæ, notes on some. 1898. p. 61. A29.6:27  Coolidge, J. H. Farmers' institute work accomplished in Illinois. 1902. p. 20. A10.3:120  Coombs, F. E. Calumet Plantation Sugar Experiment Station, Patterson, La., experiments at. 1892. p. 48. A7.3:37  Cooper, Ellwood. Olive industry. 1892. p. 130. A18.20  See also as collector, Coquillett, Daniel William.  Coordinate axes, standard system of, for magnetic and meteorological observations and computations (Bigelow). 1897. p. 201. A29.6:25  Copper-gypsum as remedy for grape mildew (Nessler). 1891. p. 73. A28.5:6  Copper River country, Alaska, notes on (Abercrombie). p. 307. A10.1*:901  A28.5:6  A28.5:6  A28.5:6  A28.5:6  A28.5:6  A28.5:6  A28.5:6	circular relative to. 1899	A6.4:16
kinetic theory of gases. 1902. p. 401	Shade in coffee culture. 1901	A6.3:25
Cook County, Ill., fornado of May 25, 1896, in (Abbe). p. 168		
Cook Inlet region, Alaska, natural history of (Osgood). 1901. p. 51. A5.5:21 Cooke, Wells W.: Agriculture, methods of instruction in teaching. 1896. p. 39 Bird migration in Mississippi Valley; edited and revised by Clinton Hart Merriam. 1888. A5.3:2 Milk, sour, analysis of. 1890. p. 22 Diminished pressure on, effects of (Abbe). 1900. p. 160 Instruction in, in public schools of New York City, history and present status of (Hogan). 1899 Cooley, George W.: Gravel roads in Hennepin County, Minn., method of construction and cost of. 1901. p. 96 Hydrology of Lake Minnetonka watershed. 1899. p. 14 A22.3:21 Hydrology of Lake Minnetonka watershed. 1899. p. 14 A29.6:27 Cooley, Robert Allen. Massachusetts coccidæ, notes on some. 1898. p. 61 1902. p. 20 Coombs, F. E. Calumet Plantation Sugar Experiment Station, Patterson, La., experiments at. 1892. p. 48  See also as collector, Coquillett, Daniel William. Coordinate axes, standard system of, for magnetic and meteorological observations and computations (Bigelow). 1897. p. 201. Copper, gypsum as remedy for grape mildew (Nessler). 1891. p. 73 A29.6:25 Copper River country, Alaska, notes on (Abercrombie). p. 307 A10.11:901 Copper salts as fungicides (Chester). 1891. p. 21 A28.5:6 Copper-soda as remedy for grape mildew (Nessler). 1891. p. 73 Copper sulphate and germination; treatment of seed with copper sulphate to prevent attacks of fungi (Evans). 1896.	kinetic theory of gases. 1902. p. 401	A29.6:30
Cooke, Wells W.: Agriculture, methods of instruction in teaching. 1896. p. 39 Bird migration in Mississippi Valley; edited and revised by Clinton Hart Merriam. 1888 Milk, sour, analysis of. 1890. p. 22 Diminished pressure on, effects of (Abbe). 1900. p. 160 Diminished pressure on, effects of (Abbe). 1900. p. 160 Diminished pressure on, effects of (Abbe). 1900. p. 160 A29.6:28 Instruction in, in public schools of New York City, history and present status of (Hogan). 1899 Cooley, George W.: Gravel roads in Hennepin County, Minn., method of construction and cost of. 1901. p. 96 Hydrology of Lake Minnetonka watershed. 1899. p. 14 Cooley, Robert Allen. Massachusetts coccidæ, notes on some. 1898. p. 61 Coolidge, J. H. Farmers' institute work accomplished in Illinois. 1902. p. 20 Coombs, F. E. Calumet Plantation Sugar Experiment Station, Patterson, La., experiments at. 1892. p. 48 A7.3:37 Cooper, Ellwood. Olive industry. 1892. p. 130 See also as collector, Coquillett, Daniel William. Coordinate axes, standard system of, for magnetic and meteorological observations and computations (Bigelow). 1897. p. 201. Copper-gypsum as remedy for grape mildew (Nessler). 1891. p. 73 Copper, metallic. See Sugar. Copper River country, Alaska, notes on (Abercrombie). p. 307 Copper salts as fungicides (Chester). 1891. p. 21 A28.5:6 Copper-soda as remedy for grape mildew (Nessler). 1891. p. 73 Copper sulphate and germination; treatment of seed with copper sulphate to prevent attacks of fungi (Evans). 1896	Cook County, Ill., tornado of May 25, 1896, in (Abbe). p. 168	A29.6:24
Agriculture, methods of instruction in teaching. 1896. p. 39		A5.5:21
Bird migration in Mississippi Valley; edited and revised by Clinton Hart Merriam. 1888		110000
Cooking: Diminished pressure on, effects of (Abbe). 1900. p. 160	Bird migration in Mississippi Valley; edited and revised by Clin-	
Cooking: Diminished pressure on, effects of (Abbe). 1900. p. 160 Instruction in, in public schools of New York City, history and present status of (Hogan). 1899.  Cooley, George W.: Gravel roads in Hennepin County, Minn., method of construction and cost of. 1901. p. 96 Hydrology of Lake Minnetonka watershed. 1899. p. 14 Cooley, Robert Allen. Massachusetts coccidæ, notes on some. 1898. p. 61 Coolidge, J. H. Farmers' institute work accomplished in Illinois. 1902. p. 20 Coombs, F. E. Calumet Plantation Sugar Experiment Station, Patterson, La., experiments at. 1892. p. 48 Cooper, Ellwood. Olive industry. 1892. p. 130 See also as collector, Coquillett, Daniel William. Coordinate axes, standard system of, for magnetic and meteorological observations and computations (Bigelow). 1897. p. 201. Copper-gypsum as remedy for grape mildew (Nessler). 1891. p. 73 Copper River country, Alaska, notes on (Abercrombie). p. 307. Copper salts as fungicides (Chester). 1891. p. 21 Copper-soda as remedy for grape mildew (Nessler). 1891. p. 73 Copper sulphate and germination; treatment of seed with copper sulphate to prevent attacks of fungi (Evans). 1896.  A29.6:28  A29.6:28  A29.6:28  A20.3:21  A29.6:27  A29.6:27  A29.6:27  A29.6:27  A29.6:27  A70.3:37  A70.3:37  A70.3:37  A70.3:37  A70.3:37  A70.3:37  A71.8:20  A29.6:25  A72.3:31	Wills coun analysis of 1900 m 90	A0.3:Z
Diminished pressure on, effects of (Abbe). 1900. p. 160		A7.5:51
Instruction in, in public schools of New York City, history and present status of (Hogan). 1899		A 90 . 8.98
Cooley, George W.: Gravel roads in Hennepin County, Minn., method of construction and cost of. 1901. p. 96 Hydrology of Lake Minnetonka watershed. 1899. p. 14 Cooley, Robert Allen. Massachusetts coccidæ, notes on some. 1898. p. 61 Coolidge, J. H. Farmers' institute work accomplished in Illinois. 1902. p. 20 Coombs, F. E. Calumet Plantation Sugar Experiment Station, Patterson, La., experiments at. 1892. p. 48 Cooper, Ellwood. Olive industry. 1892. p. 130 See also as collector, Coquillett, Daniel William. Coordinate axes, standard system of, for magnetic and meteorological observations and computations (Bigelow). 1897. p. 201. A29.6:25 Copper-gypsum as remedy for grape mildew (Nessler). 1891. p. 73. A28.5:6 Copper River country, Alaska, notes on (Abercrombie). p. 307. A10.12:901 Copper salts as fungicides (Chester). 1891. p. 21. A28.5:6 Copper sulphate and germination; treatment of seed with copper sulphate to prevent attacks of fungi (Evans). 1896. A28.3:10	Instruction in in public schools of New York City history and	A25.0.20
Cooley, George W.: Gravel roads in Hennepin County, Minn., method of construction and cost of. 1901. p. 96  Hydrology of Lake Minnetonka watershed. 1899. p. 14  Cooley, Robert Allen. Massachusetts coccidæ, notes on some. 1898. p. 61  Coolidge, J. H. Farmers' institute work accomplished in Illinois. 1902. p. 20  Coombs, F. E. Calumet Plantation Sugar Experiment Station, Patterson, La., experiments at. 1892. p. 48  Cooper, Ellwood. Olive industry. 1892. p. 130  See also as collector, Coquillett, Daniel William. Coordinate axes, standard system of, for magnetic and meteorological observations and computations (Bigelow). 1897. p. 201. A29.6:25  Copper-gypsum as remedy for grape mildew (Nessler). 1891. p. 73. A28.5:6  Copper netallic. See Sugar. Copper River country, Alaska, notes on (Abercrombie). p. 307. A10.12:901  A28.5:6  Copper-soda as remedy for grape mildew (Nessler). 1891. p. 73. A28.5:6  Copper sulphate and germination; treatment of seed with copper sulphate to prevent attacks of fungi (Evans). 1896. A28.3:10		A10 3.56
Gravel roads in Hennepin County, Minn., method of construction and cost of. 1901. p. 96  Hydrology of Lake Minnetonka watershed. 1899. p. 14  Cooley, Robert Allen. Massachusetts coccidæ, notes on some. 1898. p. 61  Coolidge, J. H. Farmers' institute work accomplished in Illinois. 1902. p. 20  Coombs, F. E. Calumet Plantation Sugar Experiment Station, Patterson, La., experiments at. 1892. p. 48  Cooper, Ellwood. Olive industry. 1892. p. 130  See also as collector, Coquillett, Daniel William.  Coordinate axes, standard system of, for magnetic and meteorological observations and computations (Bigelow). 1897. p. 201. A29.6:25  Copper-gypsum as remedy for grape mildew (Nessler). 1891. p. 73. A28.5:6  Copper River country, Alaska, notes on (Abercrombie). p. 307. A10.12:901  Copper salts as fungicides (Chester). 1891. p. 21. A28.5:6  Copper-soda as remedy for grape mildew (Nessler). 1891. p. 73. A28.5:6  Copper sulphate and germination; treatment of seed with copper sulphate to prevent attacks of fungi (Evans). 1896. A28.3:10	· · · · · · · · · · · · · · · · · · ·	1110.0.00
A22.3:21 Hydrology of Lake Minnetonka watershed. 1899. p. 14 Cooley, Robert Allen. Massachusetts coccidæ, notes on some. 1898. p. 61 Coolidge, J. H. Farmers' institute work accomplished in Illinois. 1902. p. 20 Coombs, F. E. Calumet Plantation Sugar Experiment Station, Patterson, La., experiments at. 1892. p. 48 Cooper, Ellwood. Olive industry. 1892. p. 130 See also as collector, Coquillett, Daniel William. Coordinate axes, standard system of, for magnetic and meteorological observations and computations (Bigelow). 1897. p. 201. Copper-gypsum as remedy for grape mildew (Nessler). 1891. p. 73. Copper River country, Alaska, notes on (Abercrombie). p. 307 Copper salts as fungicides (Chester). 1891. p. 21 Copper-soda as remedy for grape mildew (Nessler). 1891. p. 73 Copper sulphate and germination; treatment of seed with copper sulphate to prevent attacks of fungi (Evans). 1896		! !
Hydrology of Lake Minnetonka watershed. 1899. p. 14  Cooley, Robert Allen. Massachusetts coccidæ, notes on some. 1898. p. 61  Coolidge, J. H. Farmers' institute work accomplished in Illinois. 1902. p. 20  Coombs, F. E. Calumet Plantation Sugar Experiment Station, Patterson, La., experiments at. 1892. p. 48  Cooper, Ellwood. Olive industry. 1892. p. 130  See also as collector, Coquillett, Daniel William.  Coordinate axes, standard system of, for magnetic and meteorological observations and computations (Bigelow). 1897. p. 201. A29.6:25  Copper-gypsum as remedy for grape mildew (Nessler). 1891. p. 73. A28.5:6  Copper River country, Alaska, notes on (Abercrombie). p. 307. A10.12:901  Copper salts as fungicides (Chester). 1891. p. 21. A28.5:6  Copper-soda as remedy for grape mildew (Nessler). 1891. p. 73. A28.5:6  Copper sulphate and germination; treatment of seed with copper sulphate to prevent attacks of fungi (Evans). 1896. A28.3:10		A22.3:21
Cooley, Robert Allen. Massachusetts coccidæ, notes on some. 1898.  p. 61  Coolidge, J. H. Farmers' institute work accomplished in Illinois. 1902. p. 20  Coombs, F. E. Calumet Plantation Sugar Experiment Station, Patterson, La., experiments at. 1892. p. 48  Cooper, Ellwood. Olive industry. 1892. p. 130  See also as collector, Coquillett, Daniel William.  Coordinate axes, standard system of, for magnetic and meteorological observations and computations (Bigelow). 1897. p. 201.  Copper-gypsum as remedy for grape mildew (Nessler). 1891. p. 73.  Copper, metallic. See Sugar.  Copper River country, Alaska, notes on (Abercrombie). p. 307.  Copper salts as fungicides (Chester). 1891. p. 21.  Copper-soda as remedy for grape mildew (Nessler). 1891. p. 73.  Copper sulphate and germination; treatment of seed with copper sulphate to prevent attacks of fungi (Evans). 1896.  A9.6:17  A10.3:120  A7.3:37  A1.8:20  A29.6:25  A29.6:25  A28.5:6  A28.5:6  A28.5:6  A28.5:6	Hydrology of Lake Minnetonka watershed. 1899. p. 14	
Coolidge, J. H. Farmers' institute work accomplished in Illinois.  1902. p. 20  Coombs, F. E. Calumet Plantation Sugar Experiment Station, Patterson, La., experiments at. 1892. p. 48  Cooper, Ellwood. Olive industry. 1892. p. 130  See also as collector, Coquillett, Daniel William.  Coordinate axes, standard system of, for magnetic and meteorological observations and computations (Bigelow). 1897. p. 201.  Copper-gypsum as remedy for grape mildew (Nessler). 1891. p. 73.  Copper, metallic. See Sugar.  Copper River country, Alaska, notes on (Abercrombie). p. 307.  Copper salts as fungicides (Chester). 1891. p. 21.  Copper-soda as remedy for grape mildew (Nessler). 1891. p. 73.  Copper sulphate and germination; treatment of seed with copper sulphate to prevent attacks of fungi (Evans). 1896.  A9.6:17  A10.3:120  A7.3:37  A1.8:20  A29.6:25  A28.5:6  A6.3:11  A28.5:6  A28.5:6  A28.5:6	Cooley, Robert Allen. Massachusetts coccidæ, notes on some. 1898.	
Coombs, F. E. Calumet Plantation Sugar Experiment Station, Patterson, La., experiments at. 1892. p. 48.  Cooper, Ellwood. Olive industry. 1892. p. 130.  See also as collector, Coquillett, Daniel William.  Coordinate axes, standard system of, for magnetic and meteorological observations and computations (Bigelow). 1897. p. 201.  Copper-gypsum as remedy for grape mildew (Nessler). 1891. p. 73.  Copper in wines (Fallot). 1890. p. 96.  Copper River country, Alaska, notes on (Abercrombie). p. 307.  Copper salts as fungicides (Chester). 1891. p. 21.  Copper-soda as remedy for grape mildew (Nessler). 1891. p. 73.  Copper sulphate and germination; treatment of seed with copper sulphate to prevent attacks of fungi (Evans). 1896.  A10.3:120  A73.:37  A1.8:20  A29.6:25  A28.5:6  A6.3:11  Copper salts as fungicides (Chester). 1891. p. 307.  A10.1 <sup>2</sup> :901  A28.5:6	p. 61	A9.6:17
Coombs, F. E. Calumet Plantation Sugar Experiment Station, Patterson, La., experiments at. 1892. p. 48	Coolidge, J. H. Farmers' institute work accomplished in Illinois.	
terson, La., experiments at. 1892. p. 48		A10.3:120
Cooper, Ellwood. Olive industry. 1892. p. 130		
See also as collector, Coquillett, Daniel William.  Coordinate axes, standard system of, for magnetic and meteorological observations and computations (Bigelow). 1897. p. 201.  Copper-gypsum as remedy for grape mildew (Nessler). 1891. p. 73.  Copper in wines (Fallot). 1890. p. 96.  Copper, metallic. See Sugar.  Copper River country, Alaska, notes on (Abercrombie). p. 307	terson, La., experiments at. 1892. p. 48	A7.3:37
Coordinate axes, standard system of, for magnetic and meteorological observations and computations (Bigelow). 1897. p. 201. A29.6:25  Copper-gypsum as remedy for grape mildew (Nessler). 1891. p. 73. A28.5:6  Copper in wines (Fallot). 1890. p. 96. A6.3:11  Copper, metallic. See Sugar.  Copper River country, Alaska, notes on (Abercrombie). p. 307. A10.12:901  Copper salts as fungicides (Chester). 1891. p. 21. A28.5:6  Copper-soda as remedy for grape mildew (Nessler). 1891. p. 73. A28.5:6  Copper sulphate and germination; treatment of seed with copper sulphate to prevent attacks of fungi (Evans). 1896. A28.3:10	Cooper, Ellwood. Olive industry. 1892. p. 130.	A1.8:20
ical observations and computations (Bigelow). 1897. p. 201. A29.6:25 Copper-gypsum as remedy for grape mildew (Nessler). 1891. p. 73. A28.5:6 Copper in wines (Fallot). 1890. p. 96. A6.3:11 Copper, metallic. See Sugar. Copper River country, Alaska, notes on (Abercrombie). p. 307. A10.12:901 Copper salts as fungicides (Chester). 1891. p. 21. A28.5:6 Copper-soda as remedy for grape mildew (Nessler). 1891. p. 73. A28.5:6 Copper sulphate and germination; treatment of seed with copper sulphate to prevent attacks of fungi (Evans). 1896. A28.3:10		
Copper-gypsum as remedy for grape mildew (Nessler). 1891. p. 73. A28.5:6 Copper in wines (Fallot). 1890. p. 96		
Copper in wines (Fallot). 1890. p. 96	Conner groups of remoder for groups william (News). 1897. p. 201.	A 20 E .0
Copper, metallic. See Sugar. Copper River country, Alaska, notes on (Abercrombie). p. 307	Copper by wines (Fellot) 1900 - 02	AR 2.11
Copper River country, Alaska, notes on (Abercrombie). p. 307 A10.12:901 Copper salts as fungicides (Chester). 1891. p. 21		AU.U.II
Copper salts as fungicides (Chester). 1891. p. 21		A10.12-901
Copper-soda as remedy for grape mildew (Nessler). 1891. p. 73 A28.5:6  Copper sulphate and germination; treatment of seed with copper sulphate to prevent attacks of fungi (Evans). 1896	Copper salts as fungicides (Chester). 1891 n 21	A28.5:R
sulphate and germination; treatment of seed with copper sulphate to prevent attacks of fungi (Evans). 1896	Copper-sods as remedy for grane mildew (Nessler). 1891. n. 73	A28.5:6
sulphate to prevent attacks of fungi (Evans). 1896 A28.3:10	Copper sulphate and germination: treatment of seed with copper	
See also Grape mildew.	sulphate to prevent attacks of fungi (Evans). 1896	A28.3:10
	See also Grape mildew.	

	Classification n
Coquillett, Daniel William:	
Australian insects sent by Albert Koebele to Ellwood Cooper	1077
and B. M. Lelong, report on. 1893. p. 251	
same, status of. 1893. p. 24. Australian ladybird, imported. 1889. p. 70.	A9 7.2
Buffalo gnats, or black flies, of United States. 1898. p. 66	A9.6:10
Buhach, production and manufacture of. 1886. p. 7	A9.3:12
Cankerworms, circular on. 1895	A9.5:9
Cecidomyians, two new, destructive to buds of roses. 1900. p.	10000
Cecidomyiid injurious to seeds of sorghum. 1898. p. 81	A9.6:22
Cecidomyiid that lives on poison oak. 1895. p. 348	A9.7:7
Coleoptera of California, notes on habits of some. 1892. p. 260.	A9.7:4
Corn worm or boll worm in California. 1889. p. 331	A9.7:1
Cottony cushion-scale, remedies for. p. 552	A1.1:886
Cypress twig borer, report on. 1890. p. 116.	A9.7:3
Cyrtoneura cæsia, is [it] an injurious insect? 1895. p. 338	
Dipterous insects, two, injurious to cultivated flowers. 1895.	A9.7:7
Dipterous leaf-miners, two, on garden vegetables. 1895. p. 381.	A9.7:7
Dipterous parasite of Diabrotica soror. 1890. p. 233	A9.7:2
Dipterous parasite of melanoplus devastator in California. 1892.	
p. 22	A9.7:5
Hydrocyanic acid gas—	A O 7.0
as an insecticide. 1893. p. 176 patent on process declared invalid. 1894. p. 257	A9.7:0 A9.7:7
treatment with, for scale insects, history of. 1891. p. 457	A9.7:3
use of, for destruction of red scale. 1890. p. 202	
Insects, beneficial and injurious, of California in	
1892. p. 9	A9.3:30
1893. p. 22  Locust invasion of California in 1891, report on. p. 34.	A9.3:32
Locusts of San Joaquin Valley, California. p. 289	A1.1:885
Lysiphlebus, Braconid genus, variations in. 1891. p. 313	A9.7:3
Mosquitoes, North American, synoptic tables of. 1900. p. 4	
Oscinidæ and Agromyzidæ, reared at United States Department	
of Agriculture, habits of. 1898. p. 70	A9.6:10
Red scale of California, various methods for destroying. 1890.	A9.3:22
Rove beetle, another parasitic. 1891. p. 318.	A9.7:3
San José scale in Virginia. 1894. pp. 253, 324	A9.7:6
Scale insects—	
California, report for 1891. p. 13	A9.3:26
gas treatment for. p. 123 same, supplementary report. 1888. p. 41	A1.1:887
new, from California. 1891. p. 382	A9.7:3
various methods for destroying, annual report on. 1890. p. 19.	
various methods for destroying, report on. p. 123	A1.1:888
same, p. 123	A9.1:888
Tachinidæ of America, north of Mexico, a family of parasitic two-	A9.8:7
winged insects, revision of. 1897	A9.6:22
Walnut spanworm, report on. 1897. p. 64	A9.6:7
Wheat-pest, new, report of. 1895. p. 406	A9.7:7
Yucca whipplei, pollination of, in California. 1893. p. 311	A9.7:5
Corbett, Lee Cleveland:	A 1 10.001
Home fruit garden, preparation and care. 1901. p. 431	
Horticulture, experimental, systems of record keeping in. 1896.	A1.9:154
p. 104	A10.3:41
Horticulture, laboratory methods in teaching. 1899. p. 127	A10.3:65
Plants, propagation of. 1902	A1.9:157
See also, for report as Horticulturist in charge of experimental	A14 1.
gardens and grounds. 1901	A14.1: A1.1:862
Corbin, S. Welford. Address of, before Virginia good roads conven-	111.1.004
tion, Oct. 18, 1894. p. 13	
· · · · · · · · · · · · · · · · · · ·	

Index	
Condian A. D. Anamia lineatella roll notes on 1807 p. 71	Classification no.
Cordley, A. B. Anarsia lineatella zell, notes on. 1897. p. 71	A 27 9.7
Cork oak, growth of, in United States, etc. (Jones). 1895. p. 9	A13.3:11
Cork-tree:	
Caterpillar damaging. 1889. p. 136.	A9.7:2
Report on. p. 550	A1.1:878
Corlies, James C. Pleuro-pneumonia among cattle in New Jersey,	A 1 1 001 0
1	A1.1:881-2
Corn:	
American— composition of, investigation of (Richardson)—	
1883	A7.3:1
same, errata. 1884. p. 98	A7.3:4
1884, 2d report	A7.3:4
in Prussia. 1868. p. 462	A27.9:6
Calorimetric determination of heating value of (Richards). 1898.	A 10, 9, 40
p. 95 Canning, in Maine (Boardman). 1886. p. 554.	A10.3:49 A97 Q:94
Chicago and Milwaukee, 1862-66. p. 431	A27.9.4
Comparative value of red and white kafir corn and, steer-feeding	1151.0.1
experiments to ascertain (Georgesson). p. 483	A4.1:898
Cost of growing, in Illinois. 1873. p. 36	A27.9:11
Crop—	107.0
condition of, monthly notes on	
statistics of, annual. Culture in South (Tracy). 1898	A21.1: A1 Q:Q1
Distribution and consumption of—	A1.0.01
1883. No. 57.	A27.9:21
1884. No. 5	A27.9:22
1893. No. 102A	
1895. p. 59	A27.9:32
Ear vs. corn-and-cob meal for cows (Beal). 1899. p.16	A1.9:107 A97 Q-10
Experiments with. 1872. p. 292.  Feeding values of wheat vs. 1897. p. 4	A1.9:56
For fattening pigs (Duggar). p. 496	A4.1:898
For silage and fodder (Gettys). 1900	A3.4:24
Frosted, value of. 1863. No. 5. p. 8. Grazing steers on (Langworthy). 1901. p. 27.	A27.9:1
Ingests offering observations on in 1997 (Webster) n 147	A1.9:124
Insects affecting, observations on, in 1887 (Webster). p. 147 same, notes on (Webster). 1890. p. 159	
Moldy, feeding to animals (Langworthy). 1900. p. 26.	A1.9:122
Planting and replanting. 1899. p. 6	A1.9:92
Premium crop, in Pennsylvania. 1870. p. 478	A27.9:8
Production of, in New South Wales. 1893. p. 311	A27.9:31
Raising, expense of. 1894. p. 106	
Runner's white. p. 186	
Smutty—	111.0.00
ill effects of, on cattle (Gamgee). 1869. p. 78	A1.2:C29 <sup>1</sup>
same, p. 73	A1.2:C29 2
poisonous, note on. 1869. p. 1444.	A27.9:7
Statistics of 1875. p. 234	A27.9:13
Sugar, analysis of (McMurtrie). 1875. p. 176	A21.5.13 A9 3.12
same (Howard). 1888. p. 11.	A9.7:1
Sugar-cane beetle injuring, note on. 1886. p. 32. same (Howard). 1888. p. 11. Sweet, forcing of, under glass (Clark). 1898. p. 13.	A1.9:105
Varieties of (Sturteyant). 1899	A10.3:57
See also Broom corn — Crops, principal — Kafir corn — Maize, or	
Indian corn.  Com and climate report on relation of (Wron) 1901 - n 8	4 90 <i>8</i> 90
Corn and climate, report on, relation of (Wren). 1901. p. 8	A1 Q-107
Corn bill-bugs, life history of one of (Webster). 1889. p. 132	
Corn crambid, abstract of notes on (Beckwith). 1891. p. 42	A9.7:4
Corn-feeding syphus-fly, report on. 1888. p. 5	A9.7:1
Corn fodder:	
Green, for milch cows. p. 291. Value of. 1871. p. 470.	A1.1:870
value of. 10/1. p. 4/0	LAI.UU

	Index
	Classification no.
Corn fodder—Continued  See also Corn stover.	
Corn meal as food for pigs (Plumb and Anderson). p. 463	A4.1:899
p. 9	A1.9:97
p. 9. Corn-root aphis, summary history of (Forbes). 1891. p. 233	A9.7:3
Corn-root webworm, an old pest in Indiana, note on. 1886. p <sub>b</sub> 33 Corn stover:	A9.3:12
As a feeding stuff. 1898. p. 12. Feeding value of (Lindsey). 1896. p. 353	A1.9:84.
See also Corn fodder.	A1.10:896
Corn worm. See Boll worm.	•
Cornell University, university extension in agriculture at (Craig). 1901. p. 137	A10.3:99
Cornstalk borer, larger: Circular relative to (Howard). 1896	AO 5.10
Report on (Howard). 1891. p. 95	A9.5:16 A9.7:4
Cornstalk disease in cattle:	220
Cornstalks presumably cause of, chemical examination of (De Schweinitz). 1896. p. 88	A4.3:10
Nature, cause, and means of preventing, investigation into	111.0.10
(Moore). 1896. p. 9	A4.3:10
	A4.3:10
Cornstalks: Analytical work done on, by chemical division, July-Dec., 1880	
(Collier). 1881	A1.6:33
Sugar determinations from, partial summary of. 1880. No. 25.	
p. 23	A27.9:18
Same. No. 27. p. 23	
Waste in feeding (Beal). 1899. p. 16. Cornwall, H. B. Baking powder, adulteration of. 1889. p. 583	A1.9:107
Correspondence courses in agriculture (Craig). 1902. p. 50	A10.3:110
Corsa, William P. Nut culture in U.S., embracing native and	1220101120
introduced species. 1896	A20.2:N95
Cory, C. L. Electrical engineering laboratory in its relations to	A10.3:76
local engineering work. 1900. p. 99	A10.5.70
ensis (Bailey). 1883. p. 49	A9.3:3
Costa Diagram See Cossidæ.	
Costa Rica:  Repromotrio standard of comparison with (Abbo) 1002 n 445	A:29.6:30
Barometric standard of, comparison with (Abbe). 1902. p. 445. Climatology of, monthly notes on, Jan., 1901–Oct., 1902 (Pittier).	
Meteorology in, notes on (Abbe). 1900. p. 541.	
Cotswold ram "Golden fleece." p. 340	A1.1:866
Cottier, Joseph. Hydrodynamics, equations of, in form suitable for	
application to problems connected with movements of earth's atmosphere. 1897. p. 296.	A29.6:25
Cotton, W. E. See, as joint author, Schroeder, Ernest C.	1120.0.20
Cotton:	
Acreage of—	A 07 0.00
1892. p. 136	A27.9:30   A27.9:33
American—	
deterioration of (Watts). 1873. p. 253. future demand for (Watkins). 1901. p. 193.	A27.9:11
future demand for (Watkins). 1901. p. 193	A1.10:901
future of (Newton). 1864. No. 1. p. 12	A27.9:2
future of (Newton). 1864. No. 1. p. 12.  notes on. 1864. No. 6. p. 6.  Anthracnose of, report on (Southworth). 1891. p. 100.	AZ1.8:Z A99 5.8
same (Atkinson). 1891 n 173	A28 5·6
same (Atkinson). 1891. p. 173.  As surplus crop (Jones). 1870. p. 36.	A27.9:8
Average yields of, extravagant estimates of. 1866. p. 345	A27.9:4
Bibliography of, supplemental. 1896. p. 423	A10.3:33
Bollworm of. See Bollworm of cotton.  Botany of (Evans). 1896. p. 67.	A 10 2.22
Brazil antiquity, methods and extent of cultivation etc. (Bran-	WIA'9!99
Brazil, antiquity, methods and extent of cultivation, etc. (Branner). 1885.  Brief history of what it is and where it grows. p. 104.	A1.7:8
Brief history of what it is and where it grows. p. 104	A1.1:862

	Classification no
Cotton—Continued	
British trade in. 1866-67. p. 378	A27.9:5
Chemistry of (McBryde and Beal). 1896. p. 81	
ney). 1896. p. 143	A10.3:33
Climatology of (Mell)	A29.3:8
Condition of crop, monthly notes on	A27.9:
Crop statistics—	
1868. p. 138	A27.9:6
1869. p. 354	
1874. p. 173	
1895 (Watkins)	
1896–97 (Watkins)	
1898–99 (Watkins)	
1899–1900 (Watkins)	
Cultivated varieties of (Tracy). 1896. p. 197.	A10.3:33
Culture of, in 1866 (Cloud). p. 190	A1.1:866
same (Hammond). 1896. p. 225	A10.3:33
Date of receipt of, in Louisiana, 1857-70. p. 356	<b>A27.9:8</b>
Deterioration of (Watts). 1872. p. 211	A27.9:10
Diseases of (Atkinson). 1896. p. 279 Distribution of. 1893. No. 101A	A10.3:33
Distribution of. 1893. No. 101A	A27.9:31
Enemies of crop in Mexico, Central and South America, and West	
Indies, reports of consuls and consular agents on. 1885.	A8.1:4
App. p. 59 Exports of, from Egypt (Hitchcock). 1897. p. 29	A10.3:42
same. 1897	
Fertilizers for (McBryde). 1894	A1.9:14
Fiji Islands, microscopic investigation of (Taylor). 1872. p. 317.	A27.9:10
Handling and uses of (Hammond). 1896. p. 351	A10.3:33
History, botany, chemistry, culture, enemies, and uses. 1896	A10.3:33
History and general statistics of (Handy). 1896. p. 17	A10.3:33
Imports into Great Britain—	40707
1866-67. p. 249	
1868. p. 459	
1869. p. 147 1870–71. p. 324	A27.9:9
Imports of U. S. 1880-91. p. 664.	
India crop—	
1889. p. 163	A27.9:28
1892–93. p. 167	
1893–94. p. 203	A27.9:32
1894. p. 24	A27.9:33
1894–95. p. 146	A27.9:33
Insects affecting. See Bollworm of cotton — Cotton insects.	A27.9:29
Low price of. 1891. p. 481	A27.9:14
Manufacture of, statistics of. 1869. p. 371*	A27.9:7
same. 1876. p. 105	
Manuring of (White). 1896. p. 169	A10.3:33
same (White). 1897	A1.9:48
Middling, prices of. 1851-71. p. 137	A27.9:9
Movement of. 1870–72. p. 451	A27.9:10
same, with crop estimates: 1887. p. 449	A27.9:25
New process of utilizing (Watts). 1876. p. 400	AZ1.8:14
Planting— directions for (Lyman) p. 193	A1 1.988
directions for (Lyman). p. 193	A27.9:21
progress of. 1883. No. 59  Production, cost of (Watkins). 1899	A27.8:16
Production and price of, for one hundred years (Watkins). 1895.	A27.8:9
same, abstract	A27.8°:C82
same, abstract  Production and trade of the world. 1890. p. 268  Quality of crop. 1873, answers to circular regarding. p. 123	A27.9:28
the state of the s	
Raising by free labor (Landon). p. 88	A1.1:864

<sup>\*</sup>By a misprint, this page number appears twice.

	LIMINEX Classification no.
Cotton—Continued	CIBBRICATION NO.
Raising in California. 1872. p. 493	A27.9:10
Report on best sections. 1866. pp. 233, 280, 329	A27.9:4
Root-rot disease of, new (Atkinson). 1891. p. 262	A9.7:3
same, circular of inquiry on (Rusk)	A28.4:9
Season of 1869–70 in India. p. 361	A27.9:8
Spinning, atmospheric conditions favorable to, notes on (Abbe).	100 000
1900. p. 294	A29.6:28
Trade in, 1868. 1868. p. 364. Under high culture (Gift). p. 409.	A27.9:6 A1.1:867
Wilt disease of (Smith). 1899.	A 28 3·17
same (Orton), 1900	
World's supply and consumption of. 1894. p. 246	A27.9:32
See also Augusta, Ga., Congress of cotton States—Boll worm of	
cotton—Crops, principal—Egyptian cotton—Flax-cotton—	
Raw cotton.	
Cotton and currency, 1895	A27.8 : C82
Cotton army worm, origin of, and best means of destroying (Jones).	10.0.000
1878. p. 356	A9.2:C82
Cotton-belt: Forecast stations of Weather Rureau establishment and inspection	
Forecast stations of Weather Bureau, establishment and inspection of (Marbury). 1899. p. 150	A29.3:24
Forecast stations of Weather Bureau in, instructions governing.	A 20.0.23
1892	A29.12:C82
same (Berry). 1897	_
Report on (Smith). 1885. p. 59	A8.1:4
Cotton-boll weevil. See Mexican cotton-boll weevil.	
Cotton caterpillar:	
Brazil (Branner). 1885. App. p. 49	A8.1:4
Letter on (Morse). 1867. p. 249	A27.9:5
Cotton convention. See Atlanta, Ga.	10.7.4
Cotton cutworm, note on (Atkinson). 1891. p. 31	A9. ( :4
Cotton Exchange and Agriculture Department reports. 1886. p. 496.	A 27 9 24
Cotton exchanges, list of. 1899. p. 759	
Same, 1901. p. 696.	A1.10:901
Cotton insects:	
Bahama Islands (Schwarz). 1878. p. 347	A9.2:C82
Field. 1898. p. 85	A9.6:18
Georgia and Florida (Grote). 1878. p. 351	A9.2:C82
Injurious—	
in Brazil, preliminary report of observations upon (Branner).	A9.3:4
1884. p. 63 notes on. 1866. pp. 239, 282, 331, 377, 421	A9.3.4 A97 Q.A
same, 1867. p. 21	A27.9:5
remedies for (Weed). 1893. p. 167	A9.7:6
Investigation of. p. 210	A1.1:878
same, p. 5	A9.1:879
Kerosene experiments with. 1883	A9.3:1
Mississippi, notes on (Ashmead). 1894. pp. 25, 240, 320	A9.7:7
Protection against (Glover). 1873. p. 571	A27.9:11
Report on—	A 0 9.000
1879 (Comstock). 1885 (Stelle). App. p. 7.	A8.1:4
Résumé of more important chapters of report upon. p. 263	A1 1.879
United States (Howard). 1896. p. 317.	A 10.3:33
same, with introduction. 1897.	A1.9:47
See also Bollworm of cotton—Cotton caterpillar—Cotton cut-	-
worm — Cotton plant-louse — Cotton worm — Mexican cotton-	
boll weevil.	
Cotton machinery, adaptation of flax-cotton to (Jackson). p. 405	
Cotton or melon plant-louse, report on (Pergande). 1895. p. 309	A9.7:7
Cotton seed: Exports of. 1887. p. 450	4 97 O.95
Exports of 1887. p. 450  Products of feeding value of (Kilgore) 1896 p. 385	A10 3:33
Value of, to farmer (Beal), 1901, p. 24	A1.9:124
Products of, feeding value of (Kilgore). 1896. p. 385.  Value of, to farmer (Beal). 1901. p. 24.  Cotton seed and its products. 1896.	A1.9:36

Index	<i>(</i> 1)
Cotton and industry (Davisharty) 1001 p. 995	Classification no.
Cotton-seed industry (Daugherty). 1901. p. 285	A1.10:901
Effect of, on quality of butter (Allen). 1900. p. 24	A1.9:119
in (Dancy). 1890. p. 161.  Metaphosphoric and pyrophosphoric acids in, occurrence of	A7.3:28
(Hardin). 1892. p. 50.	A7.3:35
Nitrification of, in different soils (Withers and Fraps). 1902. p. 36	A7.3:67
Cotton stainer or red bug: Parasite of supposed eggs of (Howard). 1889. p. 241	A9.7:1
Report on. 1889. p. 234	A9.7:1
See also Southern States.	
Cotton States and International Exposition, Atlanta, Ga., 1895 See Atlanta, Ga.	
Cotton worm or aletia:	
Address on, before cotton convention at Atlanta. 1881 (Riley).	
p. 153 same. p. 153	A1.1:881-2
Aggregate damage from, in Texas, cotton crop of 1887 (Snow).	A9.1:882 •
1889. p. 32	A9.7:2
Anatomy of (Minot and Burgess). 1885. p. 45	A8.1:4
Circular no. 7 on. p. xxviii	
same, answers to circular. App.: p. 71	A0.1.4 A27.9:21
Destruction of, by birds (Redfield). 1883. No. 65. p. 25 Final report on (Riley). 1885	A8.1:4
Georgia, in 1878 (Willet). 1878. p. 358	A9.2:C82
Habits and natural history of (Trelease). 1878. p. 361	A9.2:C82
Letter on (Ferguson). 1867. p. 288	A27.9:5
(Barnard)—	
1883. p. 39	A9.3:3
1885. p. 191	A8.1:4
Mississippi, in 1878 (Anderson). p. 352	A9.2:082
Observations and experiments upon—	2227.0.12
1883 (Neal). p. 38	A9.3:1
1883 (Jones). p. 47	A9.3:1
1883 (Johnson). p. 53	A9.3:1
Question in 1894, report on (Schwarz). 1895. p. 315	A8.1:4
Report on (Hubbard). App. p. 5	A8.1:4
Same. (Jones). 1885. p. 55	<b>A8.1:4</b>
Texas, south, in spring and early summer of 1883, report upon	A9.3:3
(Anderson). 1883. p. 31	
fly (Townsend), 1893, p. 317	A9.7:5
Cottonwood, cimbex injuring, in Nebraska (Webster). 1890. p. 228.	A9.7:2
Cottonwood beetle, striped, report on (Lintner). 1895. p. 69	A9.6:2 A9.3:12
Cottonwood borer, great damage by, note on. 1886. p. 41	A5.5.12
Experiments on (Koebele). p. 558	A1.1:886
Remedies for (Coquillett). p. 552	A1.1:886
See also Scale insects.  Cottroll H. M. Burtin F. C. and Otia D. H. Dairways food and	
Cottrell, H. M., Burtis, F. C., and Otis, D. H. Dairy cow, feed and care of. p. 450.	A4.1:899
Coulter, John M.:	
Apetalæ of western Texas, description of. 1894. p. 347	A6.5:2
Cactus, anhalonium, and lophophora, North American species of,	A & K.9
preliminary revision of. 1892. p. 91	A6.5:3
p. 355	A6.5:3
Gamopetalæ of western Texas. 1892. p. 153	A6.5:2
Monocotyledons of western Texas, description of. 1894. p. 421.	A6.5:2
Phanerogams and pteridophytes of western Texas, manual of. 1891-94	A6.5:2
1001-01	

	Index
Coulter, John M.—Continued	Classification no.
Polypetalæ of western Texas, description of. 1891. p. 6	A6.5:2
Paso County, collection of plants made by G. C. Nealley, report on. 1890. p. 29.  Coulter, John M., and Rose, Joseph Nelson:	A6.5:1
Hesperogenia, a new genus of umbelliferæ from Mount Rainier. 1899. p. 203	A6.5:5
Leibergia, a new genus of umbelliferæ from the Columbia River region. 1896. p. 575.	<b>A</b> 6.5:3
Mexican umbelliferæ, mostly from the State of Oaxaca, recently collected by C. G. Pringle and Edward William Nelson, re-	
port on. 1895. p. 289. Umbelliferæ, North American, monograph of. 1900. p. 9. Country roads. See Roads.	A6.5:3 A6.5:7
Country slaughterhouse as a factor in spread of disease (Stiles).	A1.10:896
1896. p. 155 Court, meteorological records in (Linney). 1902. p. 180	A29.3:31
Same (Lyons). 1902. p. 183	A29.3:31
444 Same, Oct., 1902, p. 487.	A29.6:30 A29.6:30
Cover crops grown to protect trees and improve soil of orchards.  1899. p. 12	A1.9:87
Coville, Frederick Vernon:  Botany, text-books on. 1899. p. 154.	A29.6:27
Botany division, Agriculture Department—	
list of publications of work of, for farmer. 1897. p. 90	A1.10:897
Crepis occidentalis and its allies. 1896. p. 559	A6.4:8
Death Valley expedition, botany of. 1893	A6.5:4
1898  Klamath Indians of Oregon, notes on plants used by. 1897. p. 87.	A13.3:15
Mushroom poisoning in D. C., recent cases of, observations on	A6.4:13
Plant breeding and seed selection  Vegetable dietary, our, some additions to. p. 205	A6.2:P69 A1.10:895
Weeds, noxious, report on— 1889. p. 382	A1.1:889
same, p. 382 1890. p. 388	
same, p. 388 Yakutat Bay, Alaska, botany of, with field report by Frederick	
Funston. 1895. p. 325.	A6.5:3
See also, for reports as Botanist, Botany division, Agriculture Department. 1893–1901.  Covington area, Georgia, soil survey of (Marean). p. 329	A6.1:
Cowgill, E. B.:	/
Sorghum-sugar industry in Kansas. 1888. p. 18	A7.3:17 A1.1:887
Fattening pigs (Duggar). p. 496	A4.1:898
Food for hogs (Duggar). p. 501.  Grazing steers on (Langworthy). 1901. p. 27.	A4.1:898 A1.9:124
Report on (Smith)same, p. 287	A1.9:89
Resistant to root knot (Webber and Orton). 1902. p. 22	A3.4:5
Silage and fodder (Gettys). 1900	
1899 (Smith) 1902 (Orton). p. 9	A28.3:17 A19.3:17
Cows: Abortion in. 1869. p. 299 *	A27.9:7
# Ry a missyint this nage number appears twice	

Index	Classification no.
Cows—Continued	
Dairy—	
feed and care of (Cottrell, Burtis, and Otis). p. 450	A4.1:899 A1.10:900
scale of points for judging, regardless of breeds. 1900. p. 737. type of, in relation to milk and butter production (Lawson).	A1.10:800
	A1.9:124
1901. p. 28. weather and. 1902. p. 28	A1.9:149
Decrease of. 1865. No. 4. p. 13	A27.9:3
Ear corn versus corn-and-cob meal for (Beal). 1899. p. 16	A1.9:107 A1.9:103
Healthy and diseased, effect of tuberculin injections upon milk	211.0.100
of (De Schweinitz), 1896, p. 15	A4.3:13
Manure from, fertilizing value of. 1899. p. 5	A1.9:97
Milch— food of, do volatile acids in, occur in milk? (Weiske). 1890.	
p. 141	A7.3:24
green corn fodder for. p. 291	A1.1:870
light versus heavy grain feeding for (Allen). 1900. p. 25	A1.9:119
metabolism of, investigations on (Hagemann). 1899. pp. 803,	A10.6:10
Poor vs. good. 1897. p. 3	
Profitable and unprofitable, statement of (Allen). 1900. p. 21	A1.9:114
Scrub, milking of. p. 491	A4.1:898
Stall for, improved. 1901. p. 30	A1.9:144
Testing, as to milk and butter production, some notes in connection with (Scovell). 1899. p. 123	
Tuberculous—	A10.5.00
feeding calves with milk of (Wilcox). 1899. p. 23	A1.9:107
milk of, observation of presence of tubercle bacilli in, when	
udder is not visibly diseased (Smith and Schroeder). 1893.	A4.3:3
p. 60	A4.0:0
Cows and cattle of foreign countries (Pearson). 1896. p. 38	A4.3:11
Cows' milk. See Milk.	
Cox, Henry J.:	
Chicago weather forecast district, monthly report of— SeptDec., 1898	A29.6:26
SeptDec., 1898 JanMay, SeptNov., 1899	A29.6:27
JanJune, SeptDec., 1900	<b>A29</b> .6:28
JanMarch, May, June, Sept., Nov., Dec., 1901	A29.6:29
JanMarch, May-Oct., 1902 Storm signals on Great Lakes. 1899. p. 152 (erroneously printed	A29.6:30
J. H. Cox).	A29.3:24
Temperature, should verifying change of, he smaller, and should	
not terms "slightly warmer" or "slightly cooler" be credited?	
1902. p. 127	A29.3:31
Great Lakes; method of reaching those interested. 1899. p. 19.	A29.3:24
Cragin, Harry W. and H. S.:	122010121
Thunderstorms, local, observations for, at Skyland, Page County,	
Va. 1900. pp. 328, 389.  Thundowstowns non-Weshington D. C. report on 1000 n 207	A29.6:28
Thunderstorms near Washington, D. C., report on. 1900. p. 287. Craig, John:	A29.6:28
	A10.3:110
Agriculture correspondence, courses in. 1902. p. 50	
p. 137	A10.3:99
Craig, John A.:	A10.3:65
Sheep feeding. 1897.	A1.9:49
Sheep feeding. 1897	A4.1:901
Crambid. See Corn crambid.	
Crampton, C. A.:  Baking powders—	1
adulteration of. 1889. p. 555	A7.3:135
adulteration of. 1889. p. 555 character and constitution of. p. 163	A7.1:889
Beers, wines, and ciders, composition of, and substances used in	1
their adulteration. p. 183	A1.1:887

	Index
	Classification no.
Crampton, C. A.—Continued	
Des Linges sugar experiment station, Baldwin, La., record of ex-	A 7 9.00
periments at, season of 1888	A7.3:22 A7.3:134
Fermented alcoholic beverages, malt liquors, wine, and cider,	A7.0.10
adulteration of. 1887. p. 263	A7.3:13*
Sugar-cane and beet juices, analysis of; with table for calculation	
of analyses. 1884. p. 31	A7.3:15
of analyses. 1884. p. 31 same, at Fort Scott, Kans. 1887. p. 15.	A7.3:17
See also, as joint author, Denton, Albert A.	
Crampton, C. A., and Fake, N. J.:	
Chemical work done at Fort Scott in sorghum-sugar experiments,	Å1 1.007
1887, summary of. p. 221same, p. 15. [Fake is not mentioned in this print.]	A1.1:007
Sorghum analysis at Fort Scott, Kans., in 1887. p. 5	
Cranberries:	121.0.10
Insects affecting, report on (Smith). p. 393	A1.1:884
same, p. 9	A9.3:4
Interest in U. S. in, in 1869. p. 204	
Production of, 1872–74. p. 535	A27.9:12
Rotting of, and a proposed remedy (Beal). 1900. p. 9	A1.9:114
Cranberry culture:	A 1 1.077
New Jersey (Taylor). p. 569	A1.1:077
same (Saunders). 1894	A1.1.605
Cranberry fireworm, probable remedy for (Kirkland). 1899. p. 53.	A9.6:20
Cranberry gall fungus, treatment of (Halsted). 1891. p. 18	A28.5:6
Cranberry girdler, report of (Scudder), 1894, p. 1	A9.7:7
Cranberry leaf-galls, report on (Thomas). 1889. p. 279	A9.7:1
Cranberry rot, microscopic observations on (Taylor). 1875. p. 445.	A27.9:13
Same (Taylor). 1876. pp. 45, 350	A27.9:14
Cranberry rot and scald, microscopic observations on (Taylor). 1874.	107010
p. 439. Same (Taylor). 1875. p. 42.	A27.9:12
Cranberry scald, treatment of (Halsted). 1891. p. 18	A27.9:13 A28.5:6
Crane, Arthur B. Long-range weather forecasts, can they be made	A20.0.0
with any degree of accuracy or profit? 1899. p. 157	A29.3:24
Crane, Edward P. Hanover, Germany, cost of hauling farm prod-	
• nets over wagon roads at. n. 6	A22.4:27
Crane-fly, larvæ of, destroying young wheat in Indiana (Webster).	
1890. p. 12	A9.7:3
Craw, Alexander:	110 0 70
Nursery stock and orchards, inspection of. 1900. p. 87	A10.3:76
Scale insects found upon plants entering port of San Francisco, list of. 1896. p. 40	A9.8:4
See also, as collector, Cockerell, Theodore Dru Alison.	A.O.T
Crayfish, carbon bisulphide for (Weed). 1895. p. 98	A9.6:2
Cream:	
Comparative amount of, from deep or shallow setting of milk.	
1872. p. 513 Composition of (Brown). 1872. p. 311	A27.9:10
Composition of (Brown). 1872. p. 311	A27.9:10
Pasteurized—	
commercial butter cultures used in connection with (Allen).	A 1 0.109
1898. p. 21 restoring consistency of. 1898. p. 23	A 1 0.80
Potted sweet 1900 n 215	A4 1.899
Potted sweet. 1900. p. 215	A1.9:105
See also Milk — Potash, bichromate of.	
"Cream pot" stock, history of (Slingerland). p. 291	A1.1:866
See also Jaques "Cream pot" stock.	
Creameries or butter factories, advantages, location, organization,	
and equipment (Alvord). 1896. p. 297	A4.1:895-6
See also Dairy.  Crossy William T. Formore' views of good roads, and how to get	
Creasy, William T. Farmers' views of good roads, and how to get them. 1901. p. 78.	A22.3:21
them. 1901. p. 78	1144.U.41
ents (Mallet). 1899	A10.3:66
	-

	Classification no.
Credit, popular, French congress on. 1895. p. 26	
tion to agricultural interests (Peters). 1892	A27.8:3 A27.9:29
Farmers' institutes in Ontario. 1902. p. 32.  Ontario, farmers' institute work accomplished in. 1902. p. 26.  Live stock, judging of, as farmers' institute work. 1902. p. 113.	A10.3:120
See also, as editor, Farmers' Institute Workers, American Association of.	
Crepis occidentalis and its allies (Coville). 1896. p. 559	
Tree, carnivorous habits of (Murtfeldt) 1889. p. 130	
Crime. See Climate and Crime. Crimson clover:	A8.7.0
Circular on (Williams). 1899	A3.4:17
Danger in use of. 1897. p. 11	
Hair balls, circular on (Coville). 1896.	A6.4:8
Importance of, as a forage plant. 1898. p. 8.	
Seed of (Pieters)	
See also Clover.	110.1.10
Critchett, O. A. Irrigation and water rights, abstract of laws of the	
several States and Territories on. 1893	A15 3-1
Cronk, Corydon P. Wind vanes. 1899. p. 165	
Crop bulletins, climate and	
Crop circulars, Statistics Division, Agriculture Department	
Crop correspondents, manual of instructions to (Robinson)	
Crop reporter, Statistics Division, Agriculture Department	
Indications of, vs. estimates. 1892. p. 70	A27.9:30
Indications of, vs. estimates. 1892. p. 70	A1.8:22
Newspaper, 1874, p. 427	A27.9:12
Plea for systematic. 1872. p. 434	A27.9:10
same. 1873. p. 27	A27.9:11
Report concerning. 1886. p. 394	A27.9:24
Standard of condition in. 1889. p. 470	A27.9:27•
Crop service. See Climate and crop service.	
Crop synopsis, monthly, Statistics Division, Agriculture Department.	A27.7
Crop zones. See Zones, life and crop.	
Crops:	
Amounts and injuries of, in 1864, table showing. No. 6. p. 28	
Argentina. 1887. p. 382	A27.9:25
California and Colorado. 1890. p. 520 Climate and—	
notes on (Kimball). 1901. p. 564.	A29.6:29
problem with two solutions (Abbe). 1901. p. 419	A29.6:29
Climatology of Florida with regard to (Mitchell). 1902. p. 208.	A29.3:31
Common, value of, for forage. 1897. p. 5	
Condition of, monthly report on, June, 1863, to Nov., 1897  See also Climate and crop conditions — Weather and crop conditions.	
Continuation and rotation of, experiments in, at Rothamsted Ex-	
periment Station, England, lectures on (Gilbert). 1893 Depending on meteorological conditions, notes on (Abbe). 1900.	
p. 397	A29.6:28
p. 397. Distributed, cultural directions for. 1902	A19.2:F74
Distribution of, some physical properties of soils in relation to	
English, and prices, 1861-65. p. 210	A27.9:4
(Whitney). 1892 English, and prices, 1861-65. p. 210 same. 1870. p. 361	A27.9:8
European prospects (Moffat). 1883. No. 61, p. 34. No. 64, p. 28. No. 65, p. 29. No. 1, p. 18	A27.9:21
• •	

	Classification n
Crops—Continued	10000
Experiments with. 1874. p. 387	A27.9:12
Fall sown, condition and amount of, for 1864, table showing.	10700
No. 6, p. 29	A27.9:2
Fertilizer, requirements of (Beal). 1899. p. 5	A1.9:107
Foreign—	
official statistics of—	A 97 Q 98
1890. p. 155	A21.8.20
1893. p. 119	A 27 Q.29
1894. p. 752	
state of. 1864. No. 5. p. 14.	A27.9:2
Germany, 1870 (Prentiss). p. 283	A27.9:8
Growing, effect upon soils. 1897. p. 684	A1.10:897
Indiana and Illinois (Osborn). 1891. p. 483	A27.9:29
Insects beneficial to (Glover). 1875. p. 175.	A27.9:13
Monthly reports on condition of, etc. 1863 to 1897	A29.7:
Nitrogen of our, determinations by experiments at Rothamsted	
(Lewes and Gilbert). 1882. p. 142	A1.8:31
Ontario. 1887. p. 453	A27.9:25
same, 1890. p. 484	
Overproduction of. 1892. p. 73	
Pacific States. 1864. No. 5. p. 19	A27.9:2
Pests of, and their repression by law (McCarthy). 1897. p. 19.	
Prices of. 1864. No. 1. p. 28. No. 2. p. 20.	A27.9:3
Principal— acreage, production, and value of. 1897. No. 155	A 97 Q.25
statistics of—	M21.5.00
1895. p. 526	A1 10.895
1896. p. 558	
1897. pp. 689; 710	
1898. p. 678	A1.10:898
1899. p. 759	A1.10:899
1900. p. 753	
1901 p. 697	A1.10:901
wholesale prices of. 1898. p. 695	A1.10:898
Profitable for pigs. 1901. p. 27.	
Rainfall of season 1897 (Henry). p. 607	A1.10:897
Reporting, methods in. 1889. p. 220.	A27.9:27
Reporting stations, voluntary (Walz). 1898. p. 208.	A29.0:20
Results of, publicity of. 1889. p. 468	A21.8:21
experiments in, at Rothamsted Experiment Station, England,	
lectures on (Gilbert). 1893	A10 3.22
necessity and method of (Little). 1883. p. 85	A1.8:36
report on. 1901. p. 8.	A1.9:144
Sweden (Andrews). 1873. p. 363	A27.9:11
Soil and, note on. 1892-98 (Abbe). p. 16	A29.6:28
Soils in their relation to production of (Whitney). 1894. p.129.	A1.10:894
Statistics of—	10701
1865. pp. 19, 73	
Aug., 1866. p. 350	
Nov., 1866. p. 442 Statistics of, international. 1875. p. 32	A41.8% ▲97 0.19
Tests of averages of. 1892. p. 382	A 97 Q.20
Value of, per acre, average. 1866. p. 249	A27.9.4
Winds injurious to vegetation and (Curtis). 1895. p. 435	A29.3:11 <sup>2</sup>
Yield of, per acre—	
1864. No. 1. p. 28; No. 2. p. 20.	A27.9:3
1884. No. 13	A27.9:22
1885. No. 24.	4
1886. No. 35	
1887. No. 46.	
1888. No. 57	
1889. No. 68 1890. No. 79	
1000. 170. 17	D.41.0.40

Index	Manual A and law
Crops—Continued	Classification no.
Yield of, per acre—Continued	
1891. No. 90. 1892. No. 99A	A27.9:29
1894. pp. 629, 682	A27.9:30 A27.9:32
See also Agriculture — Agricultural products — Cereal crops —	
Cereals—Climate and crop—Cover crops—Farm products— Field crops—Forage crops—Fruit crop—Garden crops—	
Grains — Hay — Hop crops — Market-garden crops — Orchard	
crops—Root crops—Tobacco—and headings beginning	
Crop. Crosby, D. J. Agricultural colleges and experiment stations, Amer-	
ican, sixteenth annual convention of association of 1902, report	
on. 1902. p. 313 See also, as editor, Farmers' Institute Workers, American Associa-	A10 6:14
tion of; as joint author, True, Alfred Charles.	
Crosby, J. Schuyler. Borax as a preservative of butter, letter relat-	4.1.000
ing to. p. 576	A1.1:878
Bruce, Eugene S.	•
Crow blackbirds and their food (Beal). 1894. p. 233	A1.10:894
Crows: Carrion, communication of hog cholera by (Ford). p. 325	A4.1:895-6
Common, of U.S. (Barrows). 1895. p. 9.	A5.3:6
Food of, special report on (Barrows). p. 498.	Al.1:888
Insect food of (Schwarz). 1895. p. 57	
Crozier, A. A. Fungicides, effects of certain, upon vitality of seeds.	
1891. p. 8	A28.5:6
Cruelty to animals, prevention of, in District of Columbia, bill rela-	
* tive to, etc. 1896	A1.4:4
Address of—	
before convention of National League for Good Roads, Wash-	A10 9.14
ington. 1893. p. 45before National Road Conference, July, 1894. p. 32	A10.3:14 A22.3:10
Kentucky highways, history of old and new systems. 1895	
Crustacea of Tres Marias Islands, Mexico, notes on (Rathbun). 1899. p. 73	A5.5:14
Crystals, snow, notes on (Abbe). 1901. p. 118	A29.6:29
Cryptogamic growths, presence of, in fluids of diseased cattle (Billings	
and Curtis)— 1869. p. 174	A1.2:C29 1
same. p. 156	A1.2:C29*
1871	A1.2:C29 <sup>5</sup>
notes on (Edwards). 1891. p. 384.	A9.7:3
Cuba:	A 4 K-20
Cattle for, inspection and certification of. 1899	A4.5:39
also note on weather of Manila (Phillips). 1898	
report on (Phillips). 1899. p. 307. Cocoanut palms in, diseased, report of investigation of (Busck).	A29.1:898
1902. p. 20	A9.6:38
Dairy conditions in (Pearson). p. 383	A4.1:901
Our trade with, 1887–1897 Population and resources. 1898. p. 670	A1.10:898
Sugar and molasses crops of, 1870–71. 1871. p. 326	A27.9:9
Venezuelan cattle to, shipments of (Ellsworth). p. 516	A4.1:899
Cuba and other islands of West Indies, industries of, value of climate	S.
and crop and storm-warning services of Weather Bureau to	<b>490 9.</b> 91
(Hayes). 1902. p. 58	A13.3:13 <sup>1</sup>
Same, with additional notes by Filibert Roth. 1897. p. 79	A13.3:13 <sup>2</sup>

Cuckoos and shrikes in their relation to agriculture. 1898.  Cucumber beetles:  Notes on (Chittenden). 1898. p. 27.  Striped, circular relating to (Chittenden). 1898.  Cucumbers, Znaim, cultivation of (Fairchild). 1901	
Notes on (Chittenden). 1898. p. 27. Striped, circular relating to (Chittenden). 1898.	
Striped, circular relating to (Chiftenden). 1898	10.0.10
Cucumbers, Znaim, cultivation of (Fairchild). 1901	A9.0:10
Cicumbers, Znaim, cultivation of (rairchild). 1901	A9.0:51
	A23.4:2
Cucurbitacese. See Roseanthus.	410 0 10
Cucurbits, crossing of (Pammel). 1893. p. 94	A10.3:16
Cull, Edward L.:	107011
Beet and beet-root sugar. 1873. p. 366	A27.9:11
Beet-sugar industry. 1873. p. 441	A27.9:11
Cultivation by steam:	A = = 00m
American inventions for (Brainerd). p. 253	A1.1:867
Report on (Lawrence). 1872. p. 358	A27.9:10
See also Steam cultivation.	
Cultures, tubercle bacilli found in, branched forms of (Dorset).	
p. 572	A4.1:901
Culver, Garry E.:	
Artesian-wells investigation, field geologists' report for North and	
South Dakota. 1890. p. 55	A15.2:Ar7
Dakota basin, geological conditions of. pt. 3, p. 195	A15.2:Ir7 <sup>2</sup>
Cuprous oxid. See Sugars.	
Curculio:	
How to kill. 1870. p. 229	A27.9:8
Jarring for, on extensive scale in Georgia, with list of insects	
caught (Scott and Fiske). 1902. p. 24	<b>A9.6:31</b>
See also Plum curculio.	
Curculionidæ, breeding and other habits of some species of, espe-	
cially of genus Tyloderma, notes on (Webster). 1889. p. 109.	A9.7:2
Curd test in cheese making. 1898. p. 24.	A1.9:84
Curds, gassy and tainted, investigations as to cause of. 1899. p. 25.	A1.9:92
Cureton, Stephen. Tillage and products of soil on irrigated lands.	
1887. p. 282	A15.2:P941
1887. p. 282. Currant stem-girdler. Report of (Marlatt). 1894. p. 296.	A9.7:6
Same (Marlatt). 1895. p. 387.	A9.7:7
Currency and coins of U.S. 1898. p. 676.	A1.10:898
Currency and cotton. 1895	A27.8°:C82
Currency and cotton. 1895	A29.2:C93
Currents:	
Currents:  Lake Ontario, notes on (Abbe), 1894, p. 259	A29.6:21
Lake Ontario, notes on (Abbe), 1894, p. 259	A29.6:21 A29.6:30
Lake Ontario, notes on (Abbe), 1894, p. 259	A29.6:21 A29.6:30
Lake Ontario, notes on (Abbe). 1894. p. 259  Ocean (Page). 1902. p. 397  See also Japan current — Winds and currents.	A29.6:30
Lake Ontario, notes on (Abbe). 1894. p. 259  Ocean (Page). 1902. p. 397  See also Japan current — Winds and currents.	A29.6:30
Lake Ontario, notes on (Abbe). 1894. p. 259 Ocean (Page). 1902. p. 397 See also Japan current — Winds and currents. Curryer, J. C. Farmers' institutes, illustration and demonstration work at. 1902. p. 52	A29.6:30
Lake Ontario, notes on (Abbe). 1894. p. 259 Ocean (Page). 1902. p. 397 See also Japan current — Winds and currents. Curryer, J. C. Farmers' institutes, illustration and demonstration work at. 1902. p. 52 Curtice, Cooper:	A29.6:30 A10.3:110
Lake Ontario, notes on (Abbe). 1894. p. 259 Ocean (Page). 1902. p. 397 See also Japan current — Winds and currents. Curryer, J. C. Farmers' institutes, illustration and demonstration work at. 1902. p. 52 Curtice, Cooper: Hypoderma bovis, larvæ of. 1890. p. 207	A29.6:30 A10.3:110 A9.7:2
Lake Ontario, notes on (Abbe). 1894. p. 259 Ocean (Page). 1902. p. 397 See also Japan current — Winds and currents. Curryer, J. C. Farmers' institutes, illustration and demonstration work at. 1902. p. 52 Curtice, Cooper: Hypoderma bovis, larvæ of. 1890. p. 207 Maryland, outbreaks of southern cattle fever in. p. 429	A29.6:30 A10.3:110 A9.7:2 A4.1:887-8
Lake Ontario, notes on (Abbe). 1894. p. 259 Ocean (Page). 1902. p. 397 See also Japan current — Winds and currents. Curryer, J. C. Farmers' institutes, illustration and demonstration work at. 1902. p. 52 Curtice, Cooper: Hypoderma bovis, larvæ of. 1890. p. 207 Maryland, outbreaks of southern cattle fever in. p. 429 Sheep, animal parasites of. 1890	A29.6:30 A10.3:110 A9.7:2 A4.1:887-8 A4.2:Sh41
Lake Ontario, notes on (Abbe). 1894. p. 259 Ocean (Page). 1902. p. 397 See also Japan current — Winds and currents. Curryer, J. C. Farmers' institutes, illustration and demonstration work at. 1902. p. 52 Curtice, Cooper: Hypoderma bovis, larvæ of. 1890. p. 207 Maryland, outbreaks of southern cattle fever in. p. 429 Sheep, animal parasites of. 1890 Tapeworm disease of sheep of western plains. p. 167	A29.6:30 A10.3:110 A9.7:2 A4.1:887-8 A4.2:Sh4 <sup>1</sup> A4.1:887-8
Lake Ontario, notes on (Abbe). 1894. p. 259 Ocean (Page). 1902. p. 397. See also Japan current — Winds and currents. Curryer, J. C. Farmers' institutes, illustration and demonstration work at. 1902. p. 52 Curtice, Cooper: Hypoderma bovis, larvæ of. 1890. p. 207 Maryland, outbreaks of southern cattle fever in. p. 429 Sheep, animal parasites of. 1890 Tapeworm disease of sheep of western plains. p. 167 Tuberculosis among cattle, detection of. p. 283 Curtic Edward. See as joint author Billings John Shaw	A29.6:30  A10.3:110  A9.7:2  A4.1:887-8  A4.2:Sh4 <sup>1</sup> A4.1:887-8  A4.1:895-6
Lake Ontario, notes on (Abbe). 1894. p. 259 Ocean (Page). 1902. p. 397. See also Japan current — Winds and currents. Curryer, J. C. Farmers' institutes, illustration and demonstration work at. 1902. p. 52 Curtice, Cooper: Hypoderma bovis, larvæ of. 1890. p. 207 Maryland, outbreaks of southern cattle fever in. p. 429 Sheep, animal parasites of. 1890 Tapeworm disease of sheep of western plains. p. 167 Tuberculosis among cattle, detection of. p. 283 Curtic Edward. See as joint author Billings John Shaw	A29.6:30  A10.3:110  A9.7:2  A4.1:887-8  A4.2:Sh4 <sup>1</sup> A4.1:887-8  A4.1:895-6
Lake Ontario, notes on (Abbe). 1894. p. 259 Ocean (Page). 1902. p. 397 See also Japan current — Winds and currents. Curryer, J. C. Farmers' institutes, illustration and demonstration work at. 1902. p. 52 Curtice, Cooper: Hypoderma bovis, larvæ of. 1890. p. 207 Maryland, outbreaks of southern cattle fever in. p. 429 Sheep, animal parasites of. 1890 Tapeworm disease of sheep of western plains. p. 167 Tuberculosis among cattle, detection of. p. 283 Curtis, Edward. See, as joint author, Billings, John Shaw. Curtis, F. D. Swine, address on. 1883. p. 148	A29.6:30  A10.3:110  A9.7:2  A4.1:887-8  A4.2:Sh4 <sup>1</sup> A4.1:887-8  A4.1:895-6
Lake Ontario, notes on (Abbe). 1894. p. 259 Ocean (Page). 1902. p. 397 See also Japan current — Winds and currents. Curryer, J. C. Farmers' institutes, illustration and demonstration work at. 1902. p. 52 Curtice, Cooper: Hypoderma bovis, larvæ of. 1890. p. 207 Maryland, outbreaks of southern cattle fever in. p. 429 Sheep, animal parasites of. 1890 Tapeworm disease of sheep of western plains. p. 167 Tuberculosis among cattle, detection of. p. 283 Curtis, Edward. See, as joint author, Billings, John Shaw. Curtis, F. D. Swine, address on. 1883. p. 148 Curtis, George E.:	A29.6:30  A10.3:110  A9.7:2  A4.1:887-8  A4.1:887-8  A4.1:895-6  A1.7:2
Lake Ontario, notes on (Abbe). 1894. p. 259 Ocean (Page). 1902. p. 397. See also Japan current — Winds and currents. Curryer, J. C. Farmers' institutes, illustration and demonstration work at. 1902. p. 52 Curtice, Cooper: Hypoderma bovis, larvæ of. 1890. p. 207. Maryland, outbreaks of southern cattle fever in. p. 429. Sheep, animal parasites of. 1890. Tapeworm disease of sheep of western plains. p. 167. Tuberculosis among cattle, detection of. p. 283. Curtis, Edward. See, as joint author, Billings, John Shaw. Curtis, F. D. Swine, address on. 1883. p. 148. Curtis, George E.: Rainfall, causes of, with relation to surface conditions. p. 187.	A29.6:30  A10.3:110  A9.7:2  A4.1:887-8  A4.2:Sh4 <sup>1</sup> A4.1:887-8  A4.1:895-6  A1.7:2  A13.3:7
Lake Ontario, notes on (Abbe). 1894. p. 259 Ocean (Page). 1902. p. 397. See also Japan current — Winds and currents. Curryer, J. C. Farmers' institutes, illustration and demonstration work at. 1902. p. 52 Curtice, Cooper: Hypoderma bovis, larvæ of. 1890. p. 207. Maryland, outbreaks of southern cattle fever in. p. 429. Sheep, animal parasites of. 1890 Tapeworm disease of sheep of western plains. p. 167 Tuberculosis among cattle, detection of. p. 283 Curtis, Edward. See, as joint author, Billings, John Shaw. Curtis, F. D. Swine, address on. 1883. p. 148. Curtis, George E.: Rainfall, causes of, with relation to surface conditions. p. 187 Rainfall and charts of rainfall. 1902. p. 234	A29.6:30  A10.3:110  A9.7:2  A4.1:887-8  A4.2:Sh4 <sup>1</sup> A4.1:887-8  A4.1:895-6  A1.7:2  A13.3:7  A29.6:30
Lake Ontario, notes on (Abbe). 1894. p. 259 Ocean (Page). 1902. p. 397. See also Japan current — Winds and currents. Curryer, J. C. Farmers' institutes, illustration and demonstration work at. 1902. p. 52 Curtice, Cooper: Hypoderma bovis, larvæ of. 1890. p. 207. Maryland, outbreaks of southern cattle fever in. p. 429. Sheep, animal parasites of. 1890. Tapeworm disease of sheep of western plains. p. 167. Tuberculosis among cattle, detection of. p. 283 Curtis, Edward. See, as joint author, Billings, John Shaw. Curtis, F. D. Swine, address on. 1883. p. 148. Curtis, George E.: Rainfall, causes of, with relation to surface conditions. p. 187. Rainfall and charts of rainfall. 1902. p. 234. Winds injurious to vegetation and crops. 1895. p. 435.	A29.6:30  A10.3:110  A9.7:2  A4.1:887-8  A4.2:Sh4 <sup>1</sup> A4.1:887-8  A4.1:895-6  A1.7:2  A13.3:7  A29.6:30  A29.3:11 <sup>2</sup>
Lake Ontario, notes on (Abbe). 1894. p. 259 Ocean (Page). 1902. p. 397. See also Japan current — Winds and currents. Curryer, J. C. Farmers' institutes, illustration and demonstration work at. 1902. p. 52 Curtice, Cooper: Hypoderma bovis, larvæ of. 1890. p. 207. Maryland, outbreaks of southern cattle fever in. p. 429. Sheep, animal parasites of. 1890. Tapeworm disease of sheep of western plains. p. 167. Tuberculosis among cattle, detection of. p. 283. Curtis, Edward. See, as joint author, Billings, John Shaw. Curtis, F. D. Swine, address on. 1883. p. 148. Curtis, George E.: Rainfall, causes of, with relation to surface conditions. p. 187. Rainfall and charts of rainfall. 1902. p. 234. Winds injurious to vegetation and crops. 1895. p. 435. Curtis, H. E. See, as joint author, Scovell, Melville Amasa. Curtis, Thomas D.	A29.6:30  A10.3:110  A9.7:2  A4.1:887-8  A4.1:887-8  A4.1:895-6  A1.7:2  A13.3:7  A29.6:30  A29.3:11 <sup>2</sup>
Lake Ontario, notes on (Abbe). 1894. p. 259 Ocean (Page). 1902. p. 397. See also Japan current — Winds and currents. Curryer, J. C. Farmers' institutes, illustration and demonstration work at. 1902. p. 52 Curtice, Cooper: Hypoderma bovis, larvæ of. 1890. p. 207. Maryland, outbreaks of southern cattle fever in. p. 429. Sheep, animal parasites of. 1890. Tapeworm disease of sheep of western plains. p. 167. Tuberculosis among cattle, detection of. p. 283. Curtis, Edward. See, as joint author, Billings, John Shaw. Curtis, F. D. Swine, address on. 1883. p. 148. Curtis, George E.: Rainfall, causes of, with relation to surface conditions. p. 187. Rainfall and charts of rainfall. 1902. p. 234. Winds injurious to vegetation and crops. 1895. p. 435. Curtis, H. E. See, as joint author, Scovell, Melville Amasa. Curtis, Thomas D.	A29.6:30  A10.3:110  A9.7:2  A4.1:887-8  A4.1:887-8  A4.1:895-6  A1.7:2  A13.3:7  A29.6:30  A29.3:11 <sup>2</sup>
Lake Ontario, notes on (Abbe). 1894. p. 259 Ocean (Page). 1902. p. 397 See also Japan current — Winds and currents. Curryer, J. C. Farmers' institutes, illustration and demonstration work at. 1902. p. 52 Curtice, Cooper: Hypoderma bovis, larvæ of. 1890. p. 207 Maryland, outbreaks of southern cattle fever in. p. 429 Sheep, animal parasites of. 1890 Tapeworm disease of sheep of western plains. p. 167 Tuberculosis among cattle, detection of. p. 283 Curtis, Edward. See, as joint author, Billings, John Shaw. Curtis, F. D. Swine, address on. 1883. p. 148 Curtis, George E.: Rainfall, causes of, with relation to surface conditions. p. 187 Rainfall and charts of rainfall. 1902. p. 234 Winds injurious to vegetation and crops. 1895. p. 435 Curtis, H. E. See, as joint author, Scovell, Melville Amasa. Curtis, Thomas D.: Butter standard, paper relative to. 1883. p. 142	A29.6:30  A10.3:110  A9.7:2 A4.1:887-8 A4.2:Sh4 <sup>1</sup> A4.1:887-8 A4.1:895-6  A1.7:2  A13.3:7 A29.6:30 A29.3:11 <sup>2</sup> A1.7:2 A27.9:8
Lake Ontario, notes on (Abbe). 1894. p. 259 Ocean (Page). 1902. p. 397 See also Japan current — Winds and currents. Curryer, J. C. Farmers' institutes, illustration and demonstration work at. 1902. p. 52 Curtice, Cooper: Hypoderma bovis, larvæ of. 1890. p. 207 Maryland, outbreaks of southern cattle fever in. p. 429 Sheep, animal parasites of. 1890 Tapeworm disease of sheep of western plains. p. 167 Tuberculosis among cattle, detection of. p. 283 Curtis, Edward. See, as joint author, Billings, John Shaw. Curtis, F. D. Swine, address on. 1883. p. 148 Curtis, George E.: Rainfall, causes of, with relation to surface conditions. p. 187 Rainfall and charts of rainfall. 1902. p. 234 Winds injurious to vegetation and crops. 1895. p. 435 Curtis, H. E. See, as joint author, Scovell, Melville Amasa. Curtis, Thomas D.: Butter standard, paper relative to. 1883. p. 142	A29.6:30  A10.3:110  A9.7:2 A4.1:887-8 A4.2:Sh4 <sup>1</sup> A4.1:887-8 A4.1:895-6  A1.7:2  A13.3:7 A29.6:30 A29.3:11 <sup>2</sup> A1.7:2 A27.9:8
Lake Ontario, notes on (Abbe). 1894. p. 259 Ocean (Page). 1902. p. 397 See also Japan current — Winds and currents. Curryer, J. C. Farmers' institutes, illustration and demonstration work at. 1902. p. 52 Curtice, Cooper: Hypoderma bovis, larvæ of. 1890. p. 207 Maryland, outbreaks of southern cattle fever in. p. 429 Sheep, animal parasites of. 1890 Tapeworm disease of sheep of western plains. p. 167 Tuberculosis among cattle, detection of. p. 283 Curtis, Edward. See, as joint author, Billings, John Shaw. Curtis, F. D. Swine, address on. 1883. p. 148 Curtis, George E.: Rainfall, causes of, with relation to surface conditions. p. 187 Rainfall and charts of rainfall. 1902. p. 234 Winds injurious to vegetation and crops. 1895. p. 435 Curtis, H. E. See, as joint author, Scovell, Melville Amasa. Curtis, Thomas D.: Butter standard, paper relative to. 1883. p. 142	A29.6:30  A10.3:110  A9.7:2 A4.1:887-8 A4.2:Sh4 <sup>1</sup> A4.1:887-8 A4.1:895-6  A1.7:2  A13.3:7 A29.6:30 A29.3:11 <sup>2</sup> A1.7:2 A27.9:8
Lake Ontario, notes on (Abbe). 1894. p. 259 Ocean (Page). 1902. p. 397 See also Japan current — Winds and currents. Curryer, J. C. Farmers' institutes, illustration and demonstration work at. 1902. p. 52 Curtice, Cooper: Hypoderma bovis, larvæ of. 1890. p. 207 Maryland, outbreaks of southern cattle fever in. p. 429 Sheep, animal parasites of. 1890 Tapeworm disease of sheep of western plains. p. 167 Tuberculosis among cattle, detection of. p. 283 Curtis, Edward. See, as joint author, Billings, John Shaw. Curtis, F. D. Swine, address on. 1883. p. 148 Curtis, George E.: Rainfall, causes of, with relation to surface conditions. p. 187 Rainfall and charts of rainfall. 1902. p. 234 Winds injurious to vegetation and crops. 1895. p. 435 Curtis, H. E. See, as joint author, Scovell, Melville Amasa. Curtis, Thomas D.: Butter standard, paper relative to. 1883. p. 142	A29.6:30  A10.3:110  A9.7:2 A4.1:887-8 A4.2:Sh4 <sup>1</sup> A4.1:887-8 A4.1:895-6  A1.7:2  A13.3:7 A29.6:30 A29.3:11 <sup>2</sup> A1.7:2 A27.9:8
Lake Ontario, notes on (Abbe). 1894. p. 259 Ocean (Page). 1902. p. 397 See also Japan current — Winds and currents. Curryer, J. C. Farmers' institutes, illustration and demonstration work at. 1902. p. 52 Curtice, Cooper: Hypoderma bovis, larvæ of. 1890. p. 207 Maryland, outbreaks of southern cattle fever in. p. 429 Sheep, animal parasites of. 1890 Tapeworm disease of sheep of western plains. p. 167 Tuberculosis among cattle, detection of. p. 283 Curtis, Edward. See, as joint author, Billings, John Shaw. Curtis, F. D. Swine, address on. 1883. p. 148 Curtis, George E.: Rainfall, causes of, with relation to surface conditions. p. 187 Rainfall and charts of rainfall. 1902. p. 234 Winds injurious to vegetation and crops. 1895. p. 435 Curtis, H. E. See, as joint author, Scovell, Melville Amasa. Curtis, Thomas D.: Butter standard, paper relative to. 1883. p. 142	A29.6:30  A10.3:110  A9.7:2 A4.1:887-8 A4.2:Sh4 <sup>1</sup> A4.1:887-8 A4.1:895-6  A1.7:2  A13.3:7 A29.6:30 A29.3:11 <sup>2</sup> A1.7:2 A27.9:8
Lake Ontario, notes on (Abbe). 1894. p. 259 Ocean (Page). 1902. p. 397 See also Japan current — Winds and currents. Curryer, J. C. Farmers' institutes, illustration and demonstration work at. 1902. p. 52 Curtice, Cooper: Hypoderma bovis, larvæ of. 1890. p. 207 Maryland, outbreaks of southern cattle fever in. p. 429 Sheep, animal parasites of. 1890 Tapeworm disease of sheep of western plains. p. 167 Tuberculosis among cattle, detection of. p. 283 Curtis, Edward. See, as joint author, Billings, John Shaw. Curtis, F. D. Swine, address on. 1883. p. 148 Curtis, George E.: Rainfall, causes of, with relation to surface conditions. p. 187 Rainfall and charts of rainfall. 1902. p. 234 Winds injurious to vegetation and crops. 1895. p. 435 Curtis, H. E. See, as joint author, Scovell, Melville Amasa. Curtis, Thomas D.: Butter standard, paper relative to. 1883. p. 142	A29.6:30  A10.3:110  A9.7:2 A4.1:887-8 A4.2:Sh4 <sup>1</sup> A4.1:887-8 A4.1:895-6  A1.7:2  A13.3:7 A29.6:30 A29.3:11 <sup>2</sup> A1.7:2 A27.9:8
Lake Ontario, notes on (Abbe). 1894. p. 259 Ocean (Page). 1902. p. 397 See also Japan current — Winds and currents. Curryer, J. C. Farmers' institutes, illustration and demonstration work at. 1902. p. 52 Curtice, Cooper: Hypoderma bovis, larvæ of. 1890. p. 207 Maryland, outbreaks of southern cattle fever in. p. 429 Sheep, animal parasites of. 1890 Tapeworm disease of sheep of western plains. p. 167 Tuberculosis among cattle, detection of. p. 283 Curtis, Edward. See, as joint author, Billings, John Shaw. Curtis, F. D. Swine, address on. 1883. p. 148 Curtis, George E.: Rainfall, causes of, with relation to surface conditions. p. 187 Rainfall and charts of rainfall. 1902. p. 234 Winds injurious to vegetation and crops. 1895. p. 435 Curtis, H. E. See, as joint author, Scovell, Melville Amasa. Curtis, Thomas D.: Butter standard, paper relative to. 1883. p. 142 Cheese, production of, information relative to. 1870. p. 355	A29.6:30  A10.3:110  A9.7:2 A4.1:887-8 A4.2:Sh4 <sup>1</sup> A4.1:887-8 A4.1:895-6  A1.7:2  A13.3:7 A29.6:30 A29.3:11 <sup>2</sup> A1.7:2 A27.9:8

•	Classification no.
Curtiss, Charles Franklin, and Wilson, James W.:	A4.1:898
Curtiss, Charles Franklin, and Wilson, James W.:  Lambs, range, feeding of. p. 469	A4.1:898
Curtiss, D. S.:	
Destitute regions, water for. p. 230	A1.1:867
Steam cultivation, progress in. p. 263	A1.1:867
Curtiss, George G. Apple, bitter rot of, treatment of. 1890. p. 38.	A6.3:11
Curve of comfort. See Temperatures, sensible.	A 1 1.070
Cushing, Caleb. Agriculture in Spain. p. 287	A28.5:5
Customs duties:	
European, on agricultural products. 1885. No. 18. p. 39	A27.9:23
Foreign. 1886. p. 32	A27.9:24
Cutaneous disease among cattle, outbreak of. 1890. p. 361	AZ7.9:31 A4 1.880_00
Cuthbertson, David:	24.1.000
Fog and frost formation. 1902. p. 125	A29.6:30
Weather Bureau stations, should compensation be allowed per-	
sons not employed in Bureau while learning station duties	
to enable them to perform such duties in case of emergency?	A29.3:24
Cutter, William Parker:	1120.0.2
Agricultural literature, suggested classification for. 1899. p. 50.	
Library of Agriculture Department, work of. 1897. p. 220.	
Ruffin, Edmund; pioneer in agricultural science. 1895. p. 493. See also, for reports as Librarian, Library Agriculture Department,	A1.10:895
1894–1900	A17.1:
Cutworms:	
Anthrax parasitic on. 1890. p. 353	A9.7:2
Note on (Glover). 1875. p. 221 Remedies for (Smith). p. 273	A27.9:13 A1 1.995
same (Bennett), p. 274	
Variegated, report on (Chittenden). 1901	A9.6:29
See also Cotton cutworm.	
Cycles, chronological, note on (Abbe). 1900. p. 557	A29.6:28 A29.6:30
Cyclone, The, a poem (Allen). 1902. p. 270	A20.0.00
Development and movement of, as shown in morning and even-	
ing weather maps, Apr. 2-6, 1892 (Marvin). 1893	
Hurricanes, tornadoes, and (Bigelow). 1898. p. 525	
Martinique, of Aug. 18, 1891. p. 185	
Nicaragua, report on (Clancy). 1897. p. 356	A29.6:25
Report on (Watts). 1899. p. 307	A29.6:27
Tropical, atmospheric circulation in, as shown by movements of	400 0.4461
clouds (Boyer). 1896	
West India, wind direction at different altitudes around (Boyer).	112010.22
1892. p. 50	
Cyclonic storms, notes on (Abbe). 1899. p. 154.	A29.6:27
Cypress twig borer, report on (Coquillett). 1890. p. 116	A9.7:3
Cyrtoneura cæsia, is [it] an injurious insect? (Coquillett). 1895.	
p. 338	A9.7:7
Dabney, Charles William, jr.:	
Agricultural and other colleges and national defense. 1899.	A10.3:65
p. 64	A10.4:40
Civil service in Department of Agriculture. 1897	A10.4:33
Cotton plant, its history, botany, etc., introduction to report on.	
1896. p. 13	A10.3:33
Scientific work of Agriculture Department. 1895. p. 63	A10.3:24
Southern agriculture, progress of, address on. 1896	A1.4:3
See also, as editor of proceedings, 1885, Chemists, Official Agricul-	
tural, Association of.	1

	Classification no.
Dabney, John Charles. See, as joint author, Hicks, Gilbert Henry.	
Daily river stages	A29.10:
Dairy:	
Awards for U. S. at Paris Exposition. 1900. p. 734	A1.10:900
Bacteriology of (Conn). 1895	
By-products of, profitable disposal of, at factory and on farm.	
1898. p. 20	A1.9:84
1898. p. 20 By-products of, utilization of (Alvord). 1897. p. 509	A1.10:897
Development in U.S. (Alvord). 1888. p. 381	A1.10:999
same, p. 244	A4.1:899
Interests of Alabama, Georgia, Illinois, Indiana, and Ohio in	1 1 1 005
(Perry). p. 335	A4.1:885
Report on. D. 310	A1.1:870
Siberian, notes (Smith). p. 530.	A4.1:899
Statistics of, Agriculture Department, report of—	A1.1:871
1871. p. 174	A1.1:873
1874. p. 238	
1875. p. 408	
1885 (International). No. 21	
1896 (Alvord)	
Succulent forage for (Williams). 1899. p. 613	
Utensils of, care of (Pearson). 1896. p. 431	
Weather and, note on (Abbe). 1899. p. 475.	A29.6:27
Work in, at agricultural experiment stations (Allen). 1897. p. 359.	A10.6:8
See also Creameries—Deerfoot farm centrifugal dairy.	
Dairy breeds of cattle:	
Conformation of beef cattle and (Soule). 1902	
Report on (Alvord). p. 137	
same (Alvord). 1899	A1.9:106
Scales of points for judging. p. 185	
same. 1899.	A4.4:27
See also Beef and dairy cattle—Cattle—Dairy herd.	
Dairy building. See Biological and dairy building.  Dairy Division, Agriculture Department. For publications of this	
Division see Animal Industry Bureau	A4:
Dairy factories, statistics of. 1875. p. 217	A 27 Q·13
Dairy farmer, value of stave silo to (Beal). 1898. p. 23	A1.9:103
Dairy farming:	
Address on (Loring). 1882. p. 91	A1.8:22
Report on, with some account of farm of the writer (Pratt).	
p. 456	A1.1:865
Dairy herd:	
Cooperative tests (Phelps). 1901. p. 120.	A10.3:99
Formation and management (Alvord). 1894. p. 295	
same. 1897	A1.9:55
See also Cattle — Dairy breeds of cattle.	1070.10
Dairy husbandry in northern Illinois. 1874. p. 159	A27.9:12
Dairy industry:  Denmark, progress, report on (Georgeson). 1893	A 1 9.50
same. Missouri and Kansas (Chubbuck). 1897.	A4 3·18
Nebraska, South Dakota, and North Dakota (Monrad). 1896	
Porto Rico, with notes upon St. Thomas and Cuba (Pearson).	
p. 306	A4.1:901
United States (Wing). p. 387	A4.1:887-8
Dairy laws, national and State, in full, 1897 (Pearson). p. 531	A4.1:897
Same (Pearson). 1900.	A4.3:26
Dairy officials, list of—	
1898. p. 610	A1.10:898
1899. p. 688	
1900. p. 644	
1901. p. 623	V1'10:801
Dairy products:	
Adulteration of— 1887	A7 2.121
1893 (Brown). p. 54	A7.3:41
( h. 0	

	Classification no.
Dairy products—Continued Analysis of, provisional methods for (Le Clerc). 1902. p. 35  See also Chemical analysis, methods of.	A7.3:65
<b>_</b>	A27.9:28
Foreign trade in, threatened. 1890. p. 34.	A27.9:28
Inspection and marking for export, rules and regulations. Oct.	
30, 1901	A4.5:91
Legal and State standards for— 1898. p. 666	A 1 10.000
1898. p. 666	A1.10:000 A1.10:899
1900. p. 739	A1.10:900
1901. p. 695	A1.10:901
Paris Exposition of 1900 (Alvord). p. 599	A1.10:900
same. p. 194	A4.1:900
Chemists—	
1887. p. 12	A7.3:16
1888. p. 8	
1889. p. 98	
1890. p. 29	
1891. p. 16	
1892. p. 7 1893. p. 92	A7.3:39 A7.3:38
1894. p. 176	
1895. p. 122	
1896. p. 98	A7.3:49
1897. p. 105	A7.3:51
1898. p. 81	A7.3:06
1899. p. 107	
1900. p. 115 1901. p. 105	
State standards for	
Statistics, 1869–89. p. 115.	A27.9:32
Statistics, 1869–89. p. 115 United States, export of, 1821–90.	A1.2:D14
See also Butter—Cheese—Cream—Filled Cheese—Foremilk—	
Market milk — Milk — Pasteurized cream — Renovated butter.  Dairy rules, fifty. p. 201	A A 1.000
Same, p. 36.	
Same (placard)	A4.2:D14
Dairy salt, study of various brands (Lawson). 1899. p. 28	A1.9:107
Dairy schools (Pearson). 1896	A4.3:17
Dairy tests at World's Columbian Exposition, report of committee on	110 0 00
(Scovell). 1894. p. 52	A10.3:20
Dairying:  Abstracts of reports of agricultural experiment stations on. 1889-	
1902	A10.6:
American—	
report on. p. 352	A1.1:869
rise, progress, and national importance (Willard). p. 431	A1.1:865
Associated, in New England (Myrick). p. 375	A4.1:887-8 A27.9:5
California—	A21.8.0
notes upon (Pearson). p. 266	A4.1:899
same (reprinted). 1900	A4.3:24
report on (Wickson), 1896	A4.3:14
Coopérative, in Sweden (Salviate). 1872. p. 452	
Condition of, in principal dairy States for season of 1885	A1.8:41
organizations in interest of. 1885	A1.8:39
English and American, their points of difference and comparative	
merits (Willard). p. 358.  Milk fermentations and their relations to. 1892	A1.1:866
Milk fermentations and their relations to. 1892	A1.9:9
Officials and associations connected with, list of, in U.S. and	
Canada (Alvord)—	A4.4·10
1896	A4.4:18
1898	A4.4:22

('lassification no.

	('lassification E
Dairying—Continued	
Officials and associations connected with, etc.—Continued	
1899	A4.4:26
1900	_
1901	
1902	A4.4:36
Review of recent work on (Allen). 1895. pp. 943, 1043	A10.6:5
Scotland (Higgins). p. 213	A4.1:898
South (Tracy). 1902	
Dairymen, American, example for	A12.4:4
Dairymen's Association. See American Dairymen's Association —	
New York Dairymen's Association.	
Daisy. See Oxeye daisy.	
Dakota:	
Forest-tree culture in (Smith). 1891. p. 50	· A13.3:5
Mammals and birds of parts of, food habits and distribution of	
(Bailey). p. 426	
same. p. 426	A5.1:887
Tree planting on plains of, experience in. 1891. p. 45	A13.3:5
Wheat in. 1887. p. 631	A27.9:25
See also Black Hills.	44207-
Dakota basin, geological conditions of (Culver). pt. 3. p. 195	A15.2:1r7 3
Dakotas, two:	100 0 7014
Certain climatic features of (Finley). 1893.	A29.2:D14
Grasses and forage plants of (Williams). 1897	A3.3:6
Dall, William Healey. Agricultural resources of Alaska. p. 172	A1.1:868
Dallas, W. L.:	400 0 11 8
Climatology of southern and western Asia. 1896. p. 672	
Cyclical changes in India, preliminary discussion of. 1897. p. 532.	
Droughts in India, prediction of. 1894. p. 13.	A29.3:11 1
Monsoon region, Indian, upper currents of air above. 1896. p. 417.	A29.6:24
Daly, Reginald A. Ice drift and theory of ocean currents. 1900. p.	A 90 0.90
133 Denoing descriptor on dust which (Vimbell) 1000 m 216	A29.6:28
Dancing dervishes or dust whirls (Kimball). 1902. p. 316.	A29.6:30
Dancy, F. B. Fertilizers containing cotton-seed meal, report on de-	17 9.00
termination of available phosphoric acid in. 1890. p. 161	A7.3:28
Daniel, John Warwick. Roads, good, the question of the hour. 1902.	A22.3:23
Daniels, Edward. Road business, a question of education. 1901. p. 66.	
Dansey's (Captain) kite for stranded vessels (Abbe). 1897. p. 206.	A29.6:25
Darlington, Wm. Weeds of American agriculture. p. 509	A 1 1 . QR5
Darlington, Md., road league, origin and work of. 1895	
Darmstadt, Germany, experiment station, report on (Lindsey). 1897.	
p. 3	A 10 6.7
Date:	A10.0.1
Cultivation of (Borstel). 1883. p. 25.	A1 8.24
Culture of (Klee). 1883	A1 8:24
Culture of (Klee). 1883  Date line in Pacific Ocean (Page). 1902. p. 363	A 29.6:30
Date palm:	
Climatic data bearing upon culture of (Henry). 1898. p. 160	A29.6:26
Cultivation of, importance of. 1878. p. 13	A1.6:4
Date palm and its culture (Swingle). 1900. p. 453	A1.10:900
Date palm in U. S. 1899. p. 16	A1.9:92
Date-palm scale, experiments with. 1891. p. 441	A9.7:3
Daugherty, Charles M. Cotton-seed industry, 1901, p. 285	A1.10:901
Daugherty, J. S. Address of, before good roads convention of	
Texas, Feb., 1895. p. 3	A22.3:15
Davenport, Eugene:	
Feed, coarse, necessity of, to grow cattle. p. 202.	A4.1:897
Feed, coarse, necessity of, to grow cattle. p. 202.  Rural life, what can agricultural colleges do to nourish a hearty	-
sentiment for? 1896. p. 82	A10.3:41
Davenport, George E. Ferns collected in Mexico by Joseph Nelson	1
Rose during months of August and September, 1897. 1899.	
n 140	A O E E
Davidson, Rachel J. Rural road naming and house numbering.	
1901. p. 19	A22.3:21

	Classification no.
Davidson, S. P., long record of, note on (Abbe). 1900. p. 450	
p. 211 Davis, Charles, short biography of (Abbe). 1901. p. 173 Davis, G. C.:	A29.6:27 A29.6:29
Insect borers, few, notes on. 1891. p. 64. Insects, special economic, of season. 1894. p. 198. Mealy bugs and their allies. 1894. p. 168. Davis, (Miss) J. A.:	A9.7:4 A9.7:7 A9.7:7
Agricultural experiment stations, general statistics of. 1899.  p. 501  Land grant colleges and agricultural experiment stations in U.S.,	A10.3:80
statistics of, for year ended June 30, 1899	A10.3:78 A1.1:866
state good roads convention, Apr., 1902. p. 54.  Davis, T. H. New Haven, Conn, winds and rainfall of, 1873–1900.	A22.3:25
Davis, William Morris. Redfield and Espy period of meteorological	A29.6:30
advancement, 1830 to 1855. 1895. p. 305.  Davison, George Millard. Meteorology, elementary, talk on. 1899.	A29.3:11 <sup>2</sup>
Davy, Joseph Burtt:	
Horticultural herbarium, making of. 1900. p. 93	A10.3:76
age plants, and range conditions. 1902	A19.3:12
Europe, meteorological phenomena in, Jan. and Feb., 1864.	A27.9:2
No. 2. p. 94  Meteorology and growth of beet. 1879. p. 284	A1.6:28
Dawley, F. E. Farmers' institute worker, requisites of a good.  1902. p. 42  Dawson, Charles Francis:	A10.3:110
Asthenia in fowls. p. 329.  Microorganismal diseases, laboratory methods for diagnosing of	
certain. p. 335	A4.1:898
tion of virulence by certain. p. 224	A4.1:898
See also, as joint author, Moore, Veranus A.—Smith, Theobald. Day, Charles M. See, as joint author, Faville, George C.	
Day, P. C. Weather of the month, July, 1900 Same, July, 1901	A29.6:28
Day wages. See Wages.	A28.0:28
Deakin, Alfred. Australian report on American irrigation, 1884–85.	A15.2:Ir71
Dean, Albert. Cattle, Southern, regulating transportation of. p.	
Dean, R. H. Climate, influence of, on animal life. 1902. p. 107	A4.1:889-90 A29.3:31
Dean, Seneca. See, for reports as Superintendent, Seed Division,	A24.1:
Agriculture Department, 1868–1879	
1894. p. 533	A1.10:894
Climate and meteorology of (Harrington) 1892	A29.3:1
Noctuidæ from, descriptions of (Smith). 1893. p. 328	A9.7:5 A9.7:6
Death Valley expedition, 1891:	
Biological survey of parts of California, Nevada, Arizona, and Utah, 1891. Part 2. 1893. [Pt. 1 not published.]	A5.5:7
Botany of (Coville). 1893.  Diptera of, list of (Williston). 1893. p. 253.	A6.5:4 A5.5:7
Fishes of, collected in southern California and Nevada, report on,	AE E-7
Fishes of, collected in southern California and Nevada, report on, with descriptions of new species (Gilbert). 1893. p. 229  Heteroptera of (Uhler). 1893. p. 260  Insects, small, collection made during (Riley). 1893. p. 235	A5.5:7
Insects, small, collection made during (Riley). 1893. p. 235  Land and fresh-water shells collected in California and Nevada	A5.5:7
by (Stearns). 1893. p. 269	A5.5:7

	Classification no.
Death Valley expedition, 1891—Continued	
Localities visited by, list of (Palmer). 1893. p. 361	A5.5:7
Ornithology of, comprising notes on birds observed in southern	
California, southern Nevada, and parts of Arizona and Utah	
(Fisher). 1893. p. 7.	A5.5:7
Orthoptera from (Bruner). 1893. p. 266.	A5.5:7
Pyralidina of. 1894. p. 254	A9.7:6
Reptiles and batrachians collected by, annotated list of, with de-	
scriptions of new species and field notes by Merriam (Stej-	A5.5:7
neger). 1893. p. 159 Debts of farmers. 1887. p. 78	A27.9:25
December, weather conditions for, monthly statement of average	1127.0.20
(Garriott). 1900. p. 538	A29.6:28
Deciduous fruits. See Fruits.	
Dechmal system of weights and measures (Johnson). 1864. No. 6. p. 20.	A27.9:2
Decker, Horace M. Kite, mechanics of, report on. 1897. p. 349	A29.6:25
Decroix, E. Epizootic catarrh, information relative to. 1873. p. 180.	A27.9:11
Deerfield stock farm, Spencer Island, Butler County, Kans., fatal	
outbreak of Southern cattle fever at (Fullinwider). p. 463	
Deerfoot farm centrifugal dairy (Sturtevant). p. 629	
Deerskins, exports of, from British Columbia (Smith). p. 519	A4.1:900
De Ghequier, A. Commercial fertilizers, sale of, uniformity in legis-	A7.3:7
lation with regard to, views on. 1885. p. 46.  De Hart, D. E. Address of, before national road conference, July,	A.1.5:1
1894. p. 15	A22.3:10
Dehérain, Pierre Paul:	A22.0.10
Nitrification in arable soil. 1896. pp. 353, 491	A10.6:8
Peronospora, milk of lime as remedy for, account of visit of, to	12101010
Italian vineyards treated with. 1886. p. 77	A6.3:2
Plants, organic matter in, origin and formation of. 1898. p. 903.	
Dehorning cattle (Gowell and Russell). p. 489	
Dehydration of viscous organic liquids (Carr and Sanborn). 1895.	
p. 134.	A7.3:47
De Kay, Charles. Berlin, Germany, cost of hauling farm products	1.00 1.07
over wagon roads at. p. 4.	A22.4:27
De Lafitte. See Lafitte, Prosper de. De Lagerheim, G.:	
Fungi, new species of, from North and South America, observa-	
tions on 1891. p. 44	A28.5:7
tions on. 1891. p. 44. Fungus of potato scab, remarks on. 1891. p. 103.	A28.5:7
Puccinia and Phragmidium, relationship of. 1891. p. 111	A28.5:6
De Lamanon, G. Atmosphere, flux and reflux of. 1898. p. 463	
Delaware:	
Anthrax combating in (Neale). p. 190	A4.1:897
Entomological notes from (Sanderson). 1902. p. 97	A9.6:37
Farm resources and products of. 1868. p. 21	
Farmers' institute work accomplished in (Webb). 1902. p. 17.	
Insects in, notes on (Sanderson). 1900. p. 66.	A9.0:20 A4.1:884
Pleuro-pneumonia, contagious, outbreak of. p. 448	A4.1:004
nall) n 3	A 22 A · 22
nell). p. 3	A1.7:2
Delaware River See Kingsessing and Tinicum meadow.	222.7.0
Del Monte, Enrique. Climatology of Havana, Cuba. 1898. p. 152.	A29.6:28
Deming, E. W. Sorghum sugar experiments at Conway Springs,	
Kans. p. 280 Same, p. 63	A1.1:888
Same, p. 63	A7.3:20
Demography. See Paris, tenth international congress of hygiene	
and demography.	
Demoussy, Emile. Grignon Agricultural Experiment Station, in-	4400=
vestigations at. 1895. p. 3  Denby, Charles. Agriculture in China. 1893. p. 23	A10.6:5
Dendrolone report of (Smith) 1905 - 01	AZ7.9:32
Dendrolene, report on (Smith). 1895. p. 31 Dendrotettix, genus, report of (Riley). 1893. p. 254	Ay.0:Z
Denison Toyes Granavina treatment for down wildow at with	Av. / :0
Denison, Texas. Grapevine treatment for downy mildew at, with salts of copper, in 1877 (Munson). p. 23.	
onto or copper, in 1011 (Munson). p. 20	AU.U.U

Index	Classification no.
Denmark:	CIESINCELLUR AU.
American boots and shoes in (Blom), 1900, p. 521	A4.1:899
American horse meat in (Blom). p. 505	A4.1:900
Climate of (Paulsen). 1896. p. 640	A1.2:H78
Dairy industry of, progress report on (Georgeson). 1893	
same	A4.3:5
Egg industry in. 1902. p. 608.	A4.1:901
Hog cholera in. p. 159 same, p. 168	A1.1:888
Trade of (Hitchcock). 1900	
Dennis, J. S. Water rights under Canada northwest irrigation act.	A 10 9-00
1901. p. 11.  Densmore (Brothers) Sugar, evaporating apparatus for. 1887.	A10.3:96
	A7.3:17
p. 57  Denson, Lee A. Weather forecasts, double observation as a means	4.00.0.01
of improving. 1902. p. 153	A29.3:31
Sorghum culture at Sterling, Kans. 1891. p. 78.	A7.3:34
Sorghum strup, manufacture of. 1899	A1.9:90
same. 1901	A1.9:135
1887. p. 57	A7.3:17
1887. p. 57 1892. p. 76	A7.3:37
Sugar, evaporating apparatus for. 1887. p. 57	A7.3:17
See also, as collaborator, Wiley, Harvey Washington. Denton, Albert A., and Crampton, C. A.:	
Sorghum, experiments with, at Sterling Experiment Station—	
1888. p. 287 same. p. 105	A1.1:888
1889. p. 82	A7.3:20 A7.3:26
Dentrification. See Soils.	227.0.20
Denver, Colorado:	4.97 O.0
Business and resources of. 1868. p. 143. Weather forecast district, monthly reports of, July, SeptDec.,	A27.9:6
1901 (Brandenberg) same, JanOct., 1902 (Brandenberg)	A29.6:29
same, JanOct., 1902 (Brandenberg)	A29.6:30
Denza, P. Francesco. Meteorology of Italian mountains. 1896. p. 659	A29.3:11 <sup>8</sup>
Deperais, —. Ner, as joint author, Comes, O.	
Derecho of May 16, 1899, in Ohio (Smith). p. 196.	A29.6:27
Derelicts. See Wrecks.  De Riemer, Alicia, and Abbe, Cleveland. Hail, average frequency of	l 
days of, during 1893–97. p. 546  Dermestes vulpinus in goatskins (Jones). 1889. p. 63	A29.6:26
Dermestes vulpinus in goatskins (Jones). 1889. p. 63.	A9.7:2
Dermestidæ, herbivorous habits of certain (Chittenden). 1895. p.	A9.6:2
De Roode, Rudolf J. J. Commercial fertilizers, determination of	
phosphoric acid and nitrogen in, in same weighed quantity of	A 7 0-01
substance. 1891. p. 104	A7.3:31
season of 1888 (Crampton)	A7.3:22
De Schweinitz, Emil Alexander:	
Animals, diseases of, results of chemical investigations for prevention of. p. 122	
same, with additions. p. 110	A4.1:889-90
Bacterial products, investigation of effects of, in prevention of	41.1.001
animal diseases. 1893. p. 138	A1.1:891 A4.1:891-2
Berlin, international congress for consideration of best methods	111.1.001 2
for checking or curing tuberculosis, May 24–27, 1899. p. 126.	A4.1:899
Biochemic laboratory, investigations conducted by—	A1 1-809
1892. p. 119	A4.1:891-2
1893. p. 161	A1.1:893
Butter substitutes. 1895. p. 445	A1.10:895

	Classification no
De Schweinitz, Emil Alexander—Continued	
Cornstalk disease in cattle, cornstalks presumably cause of, chem-	
ical examination of. 1896. p. 88	A4.3:10
Disinfectants, some modern. 1896. p. 255	A1.10:896
Enzymes, or soluble ferments, of hog-cholera germ. p. 266	A4.1:898
Guinea pigs, production of immunity in, from hog cholera by use	
of blood serum from immunified animals. p. 269	A4.1:898
Iowa, hog cholera and swine-plague investigations in. Prelimi-	
nary report. p. 501	A4.1:899
Media culture for biochemic investigations. p. 145	A4.1:899
Milk, examination of. p. 147	A4.1:899
pasteurization and sterilization of. 1894. p. 331	A1.10:894
Paris—	
tenth international congress of hygiene and demography, held	A 4 1 .000
August 10–16, 1900. p. 260	A4.1:900
thirteenth international medical congress, held August 4,	A 4 1.000
1900. p. 254	A4.1:900
Serum treatment for swine plague and hog cholera. p. 235	A4.1:898
same, with collaboration of Marion Dorset and E. C. Schroe-	   A 4 9.09
der	A4.3:23 A1.1:888
Sorghum-sugar experiments at Conway Springs, Kans. p. 284	
same, rearranged. p. 74	
same. 1889. p. 65	A 1 10.202
Tuberculin and its use. 1894. p. 159.	A1.10.000   A1.2.7
Tuberculin injections, effect of, upon milk of healthy and diseased	AT.U.I
cowe 1808 n 15	<b>1</b>
cows. 1896. p. 15 Tuberculosis bacillus—	24.0.10
attenuated, its use in producing immunity from tuberculosis	1
in guinea pigs. p. 318	A4.1:898
report on. p. 262.	A4.1:900
some products of and treatment of experimental turbaroulogis	ı
with antitoxic serum. p. 305	A4.1:898
Tuberculosis and glanders, investigations concerning. p. 289	A4.1:898
De Schweinitz, Emil Alexander, and Dorset, Marion:	
Tuberculosis bacilli—	\ 
composition of glanders bacilli and. p. 295	A4.1:898
fats contained in. p. 301	A4.1:898
fats contained in. p. 301 growth of, upon acid media. 1896. p. 7.	A4.3:13
mineral constituents of. p. 302	A4.1:898
De Schweinitz, Emil Alexander, Emery, J. A., and Cameron, F. K.	† 
Tobacco powders and extracts, nicotin in, report of investiga-	
tion of methods for determination of. 1898. p. 113	A7.3:56
De Schweinitz, Emil Alexander, and Schroeder, Ernest C.:	1
Bovine tuberculosis bacillus, virulence of, for monkeys, and effect	i •
of tuberculins made from tuberculosis bacilli derived from	
different animals. p. 579  Tuberculosis bacillus, attenuated, further experiments with.	A4.1:901
Tuberculosis bacilius, attenuated, further experiments with.	140.10
1896. p. 11	A4.3:13
Desert flora, North American, between 32° and 42° north latitude	A 07 0.0
(Parry). 1871. p. 23	A27.9:9 A27.9:27
Desert lands, crop report of. 1889. p. 373	A21.5.21
northwestern Arizona, and southwestern Utah; cactuses,	
yuccas, and agave, geographic and vertical distribution of	
(Merriam) 1893 n 345	A5 5.7
(Merriam). 1893. p. 345. Same, trees and shrubs in, distribution of (Merriam). 1893. p.	110.0.1
285	A5.5:7
Desiccation of fruits and vegetables (Watts). 1875. p. 507  De Soto hogs of Louisiana. 1883. No. 64. p. 16	A27.9:13
De Soto hogs of Louisiana. 1883. No. 64. p. 16	A27.9:21
Destitute regions, water for (Curtiss). p. 230.	A1.1:867
See also Arid regions.	
Detmer, W. Moisture, temperature, and light conditions, influence	
of, on process of germination. 1895. p. 405	A29.3:11 <sup>2</sup>
Detmers, H. J.:	
Anthrax among cattle in the Northwest. 1881. p. 312	A1.6:34
-	

	Classification no.
Detmers, H. J.—Continued	
Enzoötic cerebro-meningitis among horses in Texas. 1882. p. 363.	
Glanders and farcy. p. 445 same, 1879. p. 257	A1.1:878
Horses, diseases among, in Illinois. 1881. p. 355.	A1.1:881.882
Sheep, diseases of, in Texas. p. 68	A1.1:883
Southern cattle fever, investigation of. p. 426	A4.1:884
same. 1884. p. 247	A4.2:An5
Swine-plague, investigations of—	A 1 1.070
(1st report), 1878. p. 321	A1.1:070 A1.6:12
same, p. 19	A1.1:879
same, p. 13	$\mathbf{A1.6:22}$
(3d report). 1880. p. 527	
same, p. 153	A1.6:34
(4th report). 1881. p. 316	
same, at Champaign, Ill. 1880. p. 291	
Detroit, Mich., halo at, May, 1900 (Hooper). p. 202.	
Deutsche Seewarte, Handbooks of, notes on (Abbe). 1897. p. 401.	A29.6:25
De Vilmorin, Henry L. Plants, cultivated, selection and its effects	A 10 0 11
on. 1900. p. 3.  Devoe, W. S. Pleuro-pneumonia among cattle in Kansas, outbreak	A10.6:11
of. p. 322	A4.1:895-6
De Vuyst, Paul. See Vuyst.	
Dewey, C. Frank. Hungarian milling, report on. 1893. p. 38	A27.9:31
Dewey, Lyster Hoxie:	10.410
Camphor tree, circular on	
Dodders infesting clover and alfalfa, circular on. 1898	A6.4:14
Egyptian cotton in U. S., circular on. 1900	A6.4:26
Gramineæ (grass family) of western Texas, description of. 1894.	
p. 484	A6.5:2
Hemp industry in U.S. 1901. p. 541	A1.10:901
Migration of weeds. p. 263	AR 4·10
	A6.4:2
Russian thistle—	
circular on	A6.4:3
history as a weed in U.S., with an account of means available for its eradication. 1894	A6.3:15
Tumbling mustard, circular on	
'Vegetation, characteristic, of desert region from western Texas	2207277
to central Arizona. p. 351	
same. p. 351	A6.1:891
Weeds, legislation against. 1896. Weeds and how to kill them	
Weeds in cities and towns. 1898. p. 193	
Wild garlic, circular on	
Dew-point:	100 0 75
Relative humidity, etc., tables for obtaining temperature of. 1897.	
Tables of, observed at Honolulu (Lyons). 1899. p. 587	A29.6:27
1900	A29.2:P95
Value of, in forecasting weather under certain conditions (Wood). 1902. p. 152.	
1902. p. 152.	A29.3:31
See also Vapor pressure.  Doztoz Edwin Grant Conduct and the weather report on 1800	
Dexter, Edwin Grant. Conduct and the weather, report on. 1899. p. 353	A29.6:27
Dextrine, starch, dextrose, sucrose, and gum arabic, mixture of, at-	•
p. 353.  Dextrine, starch, dextrose, sucrose, and gum arabic, mixture of, attempt to analyze (Krug). 1894. p. 167	A7.3:43
Diabrotica soror, dipterous parasite of (Coquillett) 1890. p. 233	A9.7:2
Diabrotica soror, dipterous parasite of (Coquillett) 1890. p. 233  Diabrotica 12-punctata:  Habits and life history of (Riley). 1891. p. 104	A9.7:4
Observations on (Quaintance). 1900. p. 35.  Dickinson, S. C. Steel-track roads. 1901. p. 68.	A9.6:26
Dickinson, S. C. Steel-track roads. 1901. p. 68.	A22.3:21

	Classification no.
Dickingon W. I. Highways improvement of 1009 n 49	
Dickinson, W. L. Highways, improvement of. 1902. p. 43 Dickoré, William. Food examinations, suggestions for better ar-	A22.3:25
	A7.3:38
rangement of. 1893. p. 162  Dickson, William. Horse, shoeing of. p. 529	A4.2:H78
Dickson, William, and Lowe, William Herbert. Surgical operations	
	A4.2:C29 <sup>2</sup>
on cattle. p. 301  Diehl, Israel S. Goat, breeding and raising of. p. 216  Diehl, St. Food and dieh	A1.1:863
Diet. See Food and diet.	
Dietaries in public institutions (Atwater). 1901. p. 393	A1.10:901
Dietary studies:	A 10, 0, 00
Alabama negro, 1895 and 1896 (Atwater and Woods)	A10.3:38
and Caroline L. Hunt, of Hull House (Atwater and Bryant).	
1898	A10.3:55
Club of women students at North Dakota Agricultural College	111010100
(Ladd). 1901. p. 21	A10.3:91
Harvard and Yale boat crews (Atwater and Bryant). 1900	A10.3:75
Illinois University (Grindley and Sammis). 1901. p. 7	A10.3:91
Lake Erie College, Painesville, Ohio (Bevier and Sprague). 1901	110001
p. 27	A10.3:91
Maine State College, 1895 (Jordan)	A10.3:37
Missouri University, 1895, and data relating to bread and meat consumption in Missouri (Gibson and others). 1896	A10.3:31
same, comments on (Atwater and Woods). p. 21	A10.3:31
Negroes in eastern Virginia, 1897 (Frissell). p. 7.	A10.3:70
same (Bevier). 1899. p. 27	
New Mexico in 1895 (Goss)	A10.3:40
New York City, 1895–1896 (Atwater and Woods)	A10.3:46
same, 1896 and 1897 (Atwater and Bryant)	A10.3:116
Purdue University, Lafayette, Ind. (Stone). 1896	A10.3:32
same, comments on (Atwater and Woods). p. 23	
Tennessee University, 1895 (Wait)	A10.3:29
same, comments on (Atwater and Woods). p. 33	
See also Nutrition investigations.	A1.10.000
Dietel, P. Uredinese of United States, notes on some. 1891. p. 42.	A28.5:7
Dietrich, Th. Milk, fat in, process for estimating by gravimetric	
method. 1890. p. 159	A7.3:24
Differential grasshopper. See Grasshopper.	
Diffusion:	
Application to sugar cane, and record of experiments with	A 77 O O
sorghum in 1883. (Wiley). 1884	A7.3:2
Carbonatation and, experiments with, at Ottawa, Kans. (Wiley).	A7.3:6
Extracting saccharine matter from sugar-yielding plants by.	A1.3.0
1869. p. 457	A27.9:6
Methods and machinery for application of, to extraction of sugar	112777
from sugar cane and sorghum (Wiley). 1886	A7.3:8
See also Sugar cane.	
Digestibility:	A * A B **
American feeding stuffs (Jordan and Hall). 1900	A10.3:77
Feeding stuffs, methods of determining (Kellner). 1898. p. 504.	A10.6:9 A10.3:43
Potatoes and eggs (Snyder). 1897. p. 20	A10.3:43
and Sherman). 1901	A10.3:98
Digestion experiments:	
American, report on (Jordan). 1896. p. 5	A10.6:6
American, report on (Jordan). 1896. p. 5	A10.5:3
Recent work abroad (Armsby). 1891. p. 132.	A10.5:3
Recent work abroad (Armsby). 1891. p. 132.  Digestive organs, diseases of, of cattle (Murray). p. 15.  Same, of horses (Michner). p. 15.  Digger wasp, larger, report of (Riley). 1892. p. 248	A4.2:C29*
Diame, or norses (Michner). p. 15	A4.Z:H/8
Digger wasp, larger, report of (Kiley). 1892. p. 248	AJ. / :4
Diked marshes. See Tidal lands. Dilution cross raising by (Lawson) 1899 n 28	A1.9·105
Dines W. H. Anemometers in general use relative merits of	484.V.IVV
Dilution, cream raising by (Lawson). 1899. p. 28  Dines, W. H. Anemometers in general use, relative merits of.  1896. p. 699	A29.3:11 <sup>3</sup>
Dipodomys ordii. See Kangaroo rats.	
-	

	Classification no.
Dipter. See Typhlocyba.	
Diptera of Death Valley Expedition, list of (Williston). 1893. p. 253.	A5.5:7
Diptera. See Agromyzidæ — Belvosia — Flies — Gnats — Mosquitos — Necrophagous diptera.	
Dipterous insects, two, injurious to cultivated flowers (Coquillett).	
1895. p. 399	A9.7:7
Dipterous leaf miners, two, on garden vegetables (Coquillett). 1895.	
p. 381	A9.7:7
Dipterous parasite:	40 70
Diabrotica soror (Coquillett). 1890. p. 233.	A9.7:2
Melanoplus devastator, in California (Coquillett). 1892. p. 22 Relation to economic entomology (Townsend). 1893. p. 201	A9.7:6
Diphtheria, preliminary investigation of, in fowls (Moore). 1895.	20.7.0
p. 39	A4.3:8
Disease:	_
Carriage of, by flies (Howard). p. 39	A9.6:30
Climate and climatic elements as curative or causative agencies of.	4.00.0.01
(Wilson). 1902. p. 104	A29.3:31
Insects as carriers and spreaders of (Howard). 1901. p. 177	A1.10:901
Losses of swine by. 1886. p. 546	A27.9:24
Spread of, country slaughter house as a factor in (Stiles). 1896.	
p. 155	A1.10:896
Diseases of animals:	
Australian farm pests and. 1887. p. 535	A27.9:25
Chemical investigations for prevention of, results of (De Schweinitz). p. 122.	A1.1:890
same, with additions. p. 110	
Communicable, rules of Agriculture Department for suppression	121111000 00
of (Colman). 1887	A1.8:44
Contagious—	
convention to consider subject of, held at Chicago, Nov., 1883.	
European countries. 1897. p. 69	
same. 1898. p. 428	A4.1:898
1884. p. 437	A4.1:884
p. 260	A4.2:An5
1885. p. 446	A4.1:885
foreign countries, consular reports on. p. 343	A4.1:891-2
foreign countries, reports on—	141.000
1889. p. 479	A4.1:889
1900 (Thompson). p. 492	A4.1:900 A4.1:901
Great Britain. p. 37.	A4.1:895-6
imported into United States, precautions against. 1883. p. 52.	A1.8:29
investigations—	
1877. p. 383	A1.1:877
1878. p. 321	
1879. p. 365	
1880. p. 387	
1881–1883. See Veterinary Division.	
1883 (Hopkins). p. 44	A1.8:29
1884–1902. See Animal Industry Bureau.	
laws of States and Territories for control of—	1 1 1 00E
1885. p. 471 1886. p. 303	
1890. additional. p. 457	
1892. additional. p. 381	
1894. additional. p. 103	A4.1:893-4
1896. additional. p. 333	
1897. complete. p. 419	
1899. complete. p. 733	
1901. complete	A4.3:43
1898. p. 603	A4.1:898
1899. p. 530	1
<del>-</del>	

	Classification no.
Diseases of animals—Continued •	
Contagious—Continued	
means of suppressing and extinguishing (Law). p. 19 national legislation for, address on (Salmon). 1885. p. 13	A1.8:29
national legislation for, address on (Salmon). 1885. p. 13	A1.8:38
New York and Brooklyn, preliminary report of inspectors in	A 1 7.0
investigation of (McLean and others). 1884. p. 19 prevention of, in America (Salmon). 1883. p. 32	A1.7:0 A1.9:90
report of—	A1.0.28
1880	A1 6.22
1881	•
1884	A4.2:An5
rules of Agriculture Department for suppression of (Colman).	
Correspondence relative to prevalence of. 1879. p. 186	A1.8:44
Correspondence relative to prevalence of. 1879. p. 180	A1.0:22
Germany, 1887. p. 47	A21.8.20
investigation of. 1879	A1.6:12
same (Smith). 1891. p. 105	A1.1:890
same, p. 93	A4.1:889-90
same, p. 75	A1.1:889
same, p. 28	<b>A4.1:889-90</b>
same (Smith), p. 117	
same, p. 45	
same. 1892. p. 110	
same, p. 96	A4.1:892-3
list of State officers having control of. 1898. p. 603	
	A4.1:899
same. 1899. p. 530	A4.3:3
rules of Agriculture Department for suppression of (Colman).	
1887	A1.8:44
State and Territorial laws relating to. 1901	A4.3:43
variability of, as illustrated by hog cholera and swine plague	A 4 0 0
(Smith and Moore). 1894. p. 81	
Investigations of (Smith). p. 119	A4.1:090-0
same. 1884. p. 291	A4.2:An5
Knowledge concerning, some examples of development of (Sal-	11 1.2 11110
mon). 1899. p. 93	A1.10:899
same, p. 53	A4.1:899
Morphology, biology, and pathogenic properties of 28 Streptococci	
found in investigation of (Moore). 1893. p. 9	A4.3:3
Parasitic, report on. 1893.	A4.3:3
Prevention of, investigation of effects of bacterial products in (De Schweinitz). p. 138	A 1 1 · QQ1
same, p. 66	
Relation of water supply to. 1899. p. 17	A1.9:97
same (Bitting), p. 471	A4.1:899
Reported, investigation of. p. 90	A1.1:890
same, p. 78.	<b>A4.1:889-90</b>
See also Animal, smallpox — Anthrax — "Big head" — Black-	
leg — "Bottom disease" — Bovine tuberculosis — Bronchitis — Caseous lymph-adenitis — Cattle — Cholera — Cornstalk	
disease — Cryptogamic growths — Cutaneous — Diphtheria —	
Distemper — Ear diseases — Epizootic aphthe — Epizootic	
catarrh — Epizootics — Ergotism — Farm animals — Fetlock	
diseases — Florida "horse-leech" — Fluke diseases — Foot	
and mouth disease — Fowl cholera — Glanders — Heart —	
Hog cholera — Hog fever — Horses — Influenza in horses —	
Lameness of horses — Lumpy jaw — Mal de caderas — Mala-	
die du coit — Micro-organismal diseases — Millet disease of	
horses — Ovine caseous lymph-adenitis — Pleuro-pneumonia or lung plague among cattle — Poultry — Rabies — Sheep	
scab — Smallpox — Spanish fever of cattle — "Staggers" —	
Streptococci — Swine plague — Tapeworm diseases — Trichi-	
nosis — Tuberculosis — Tumors.	
·	

	Classification no
Disinfectants, some modern (De Schweinitz). 1896. p. 255	A1.10:896
Disinfection of kennels, pens, and yards by fire (Stiles). 1902. p. 15.	A4.3:35
Dismal Swamp region, Va., botanical survey of (Kearney). 1901.	
p. 321	A6.5:5
Displaymen:	
Special, instructions to, cipher code of wind-signal orders, amend-	100000
ing. 1894Special instructions to. 1892	A29.2:C49
Wind-signal, instructions to. 1896	A29.12:D63 <sup>1</sup> A29.12:D63 <sup>2</sup>
Dissosteira longipennis, recent outbreak of, notes on (Popenoe).	A28.12.D03
1891. p. 41	A9.7:4
Distemper. See Horses.	
Distilled spirits, consumption of, in U.S., per capita of population—	
1870–1895. p. 552	A1.10:895
1896. p. 595	
1898. p. 723	A1.10:898
See also Liquors.	A 1 0.104
Distilled water for drinking purposes (Beal). 1901. p. 5	A1.9:124
p. 142	A7.3:31
District of Columbia:	11710.01
Animals in, prevention of cruelty to, bill regarding. 1896	A1.4:4
Birds and game in, laws for protection of (Palmer). 1901	A5.4:34
Milk of, Washington, not normal (Richardson). 1888. p. 24	A7.3:19
Mushroom poisoning in, observations on (Coville)	
Pleuro-pneumonia among cattle in, investigation of (Rose). p. 51.	A1.1:881-2
Rabies in—	A 4 1.00E 0
1895 (Moore and Fish). p. 267	A4.1:895-6 A4.3:25
1900 (Salmon)	A4.4:30
Shade trees and insect defoliators, four species which affect trees	221.1.00
of the capital. 1887	A9.3:10
Vivisection in. 1896	A1.4:2
See also Washington, D. C.	
District of Columbia Medical Society, committee on public health	A 4 9.05
of, report on rabies. 1900	A 90 A 90
Doberck, W. Weather forecasting in Hongkong. 1899. p. 98	A 29 6.27
Document and folding room, Agriculture Department, report of	,1120.0.21
superintendent of:	
1890 (Longley). p. 449	A1.1:890
1891 (Longley). p. 499	A1.1:891
1892 (Longley). p. 509	A1.1:892
1893 (Bane). p. 409	
1894 (Bane). p. 215	
Dodge, Charles Richards:	220.7.17
Bast fibers, uncultivated, of U.S., including history of previous	
experiments with plants and fibers, and brief statements relat-	
ing to allied species produced commercially in the Old World.	4
	A11.5:6
Fiber Investigations Office, Agriculture Department, work of, for	A1.10:897
farmer. 1897. p. 224  Fiber plants, useful, of world, descriptive catalogue of. 1897	A11.5:9
Flax, hemp, ramie, and jute, with considerations upon flax and	111.0.0
hemp culture in Europe, ramie machine trials of 1889 in	
Paris, and present status of fiber industries in U.S. 1892.	
same, 2d ed	A11.5:1
Flax culture—	A 11 F - A
for fiber, in U.S., etc. 1892	A11.0:4
present status of, in U.S. 1897. p. 471	A11.0:1U A1 10.207
Flax for seed and fiber in U.S. 1895	A1.9:27
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	Classification n
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practice in foreign countries, preparation of fiber for market,	
and remarks on machine question. 1896	A11.5:8
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same, in Europe. 1898	A11.5:11
Leaf fibers of U.S., results of recent investigations relating to	
Florida sisal hemp, false sisal hemp of Florida, and other	
fiber-producing agaves, bowstring hemp, pineapple fiber,	
New Zealand flax, and bear grass. 1893	A11.5:5
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cultivation of, in U.S., with statements concerning practice	
in foreign countries, cost of cultivation and percentages of	
yield, the machine question, and preparation of fiber for	
manufacture. 1895	A11.5:7
culture of, in the South. 1893. p. 164.	A10.3:16
facts regarding, recent. 1891. p. 183	A27.9:29
same. 1894. p. 443	A1.10:894
Ramie industry in America, recent facts regarding, with brief	
statements relating to manufacture in Europe, etc. 1893	A11.5:2
Sisal hemp culture in U.S. [Florida], with statements relating	
to industry in Yucatan and Bahama Islands, and brief consid-	
erations upon question of machinery for extracting the fiber.	
1891	A11.5:3
Vegetable fibers in Agriculture Department collection at Phila-	1.1.1.000
delphia Centennial Exhibition, 1876. p. 497	A1.1:879
Woods, native, descriptive catalogue of manufactures from, as	
shown in exhibit of Agriculture Department at World's Indus-	
trial and Cotton Exposition at New Orleans, La., 1886	A1.7:10
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tions Office, 1890–1897	A11.1:
Dodge, J. A. Poultry and egg industry, condition of. p. 305	A4.1:891-2
Dodge, Jacob Richards:	
Address of—	
before 26th annual meeting Patrons of Industry, Concord,	4.07.0.00
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on agricultural statistics, before 3d national agricultural con-	A27.9:12
gress, Atlanta, Ga., 1874. p. 260  Agricultural production for American consumption. 1884. No. 11.	A27.9:12
41	A27.9:22
p. 41 same, press notice on. No. 13. p. 23	A27.9:22 A27.9:22
Agricultural statistics—	A21.8.22
centennial album of. 1876	A 97 9. A ~Q
same. 1889	A27.2:Ag8 A27.2:St2
practical hints from, address before national agricultural con-	A21.2.502
gress, Atlanta, May 14, 1874. p. 146.	A1.1:873
report of exhibits illustrating, at World's Industrial and Cot-	A1.1.010
ton Exposition, New Orleans, La., 1885	A1.8:40
Birds and bird laws. p. 431.	
Cattle plague in Europe, 1865–66. p. 550.	A1.1:865
Cereals, production and distribution of, in U.S. 1879	A27.2:C33
Consular correspondence of Agriculture Department. p. 487	A1.1:864
Dairy products, foreign markets for. 1890. p. 626	
Jaques "Cream pot" stock. p. 292	A1.1:866
Madder, properties and uses, etc. p. 339	A1.1:865
Madder, properties and uses, etc. p. 339	A1.1:863
Mutton sheep, why and where profitable. p. 341	A1.1:866
Ramie or China grass, importance of. p. 347	A1.1:865
Sheep, long-wool. p. 479	A1.1:865
Sheep and wool—	
review of progress of American sheep husbandry. 1900	A1.8:66
statistical report on, of world. p. 207	A1.1:875
statistical report on, of world. p. 207 Texas cattle disease, statistical and historical investigations of	· · · · · · · · ·
progress and results of. 1871. p. 175	A1.2:C29 3
progress and results of. 1871. p. 175.  West Virginia, resources of, etc., brief history of. p. 42.	A1.1:863
See also, for reports as editor, Agriculture Department, 1868-1871	A21.1:
See also, as editor, Statistical reports	A27.9:
,	

Dodge, Miss) L. C. Farmers' daughters, education of. p. 441	Ingex	Classification uo.
See also, for reports as Statistician, Agriculture Department, 1866–1877 and 1881–1892.  Doige, (Miss) L. C. Farmers' daughters, education of. p. 441.  Doige, Martin: Address of— before Jefferson memorial and interstate good roads convention, Apr., 1902. p. 16.  Defore pational road conference, July, 1894. p. 24.  Lemporary chairman, at international good roads congress, held at Buffalo, N. Y., Sept. 16–21, 1901. p. 11.  Road building in Ohio. 1895. p. 18.  Road work, object lesson, Government cooperation in. 1901. p. 409.  Roads— good, work of Federal Government for. 1902. p. 43.  A22.3:23  relation of, to rural population. 1902. p. 34.  See also, for reports as Director, Office of Road Inquiry, 1898. Director of Office of Public Road Inquiries, 1900 to 1902.  Dodge, Richard E. Diurnal winds on faint gradient in north-western New Mexico. 1901. p. 299.  Dodge City, Kanasa. Precipitation at, 1899-91. p. 108.  A22.1:  Dogg meat as food in Germany (Guenther). p. 590.  A23.6:29  Dogg meat as food in Germany (Guenther). p. 590.  A24.9:80  Breeders of, association of— 1808. p. 6157.  A110-898  A27.9:5  Breeders of, association of— 1808. p. 652.  A110-899  1809. p. 652.  A110-899  A27.9:5  A110-899  A27.9:5  A110-899  A27.9:5  A110-899  A27.9:5  A110-899  A27.9:5  A27.9:5  A28.1:20  A28.2:20  A28.2:20  A29.6:29  A29.6:29  A29.6:29  A29.6:29  A29.6:29  A29.6:29  A110-899  A29.6:29  A29.6:29  A110-899  A29.6:29	Dodge, Jacob Richards—Continued	
Dodge, Martin:   Address of—    before Jefferson memorial and interstate good roads convention, Apr., 1902. p. 16	See also, for reports as Statistician, Agriculture Department,	
Dodge, Martin:   Address of—    before Jefferson memorial and interstate good roads convention, Apr., 1902. p. 16	1865-1877 and 1881-1892	A27.1:
Address of— before Jefferson memorial and interstate good roads convention, Apr., 1902. p. 16.  A22.3:25 before pational road conference, July, 1894. p. 24.  Lemporary chairman, at international good roads congress, beld at Buffalo, N. Y., Sept. 16-21, 1901. p. 11.  Road building in Ohio. 1895. p. 16.  Road work, object lesson, Government cooperation in. 1901. p. 409.  Roads— good, work of Federal Government for. 1902. p. 43. A22.3:27 relation of, to rural population. 1902. p. 43. A22.3:23 steel-track wagon. 1898. p. 291.  See also, for reports as Director, Office of Road Inquiry, 1898; Director of Office of Public Road Inquiries, 1900 to 1902.  Dodge, Richard E. Diurnal winds on faint gradient in north-western New Mexico. 1901. p. 299.  Dog tax in England and Scotland. 1867. p. 381.  Dogs:  Breeders of, association of— 1898. p. 615.  1899. p. 697.  A1.10:898  Breeders of, association of— 1898. p. 615.  A1.10:898  Breeders of, association of— 1898. p. 635.  A1.10:900  Mazzling of, in Germany and Great Britain (Mason). p. 521. A27.9:4  Same. 1867. p. 84. A22.3:21  A22.3:21  A22.3:23  A23.3:23  A23.3:23  A23.3:23  A23.3:23  A23.3:23  A23.3:23  A23.3:23  A23.3:	Dodge, (Miss) L. C. Farmers daughters, education of. p. 441 Dodge. Martin:	A1.1:800
tion, Apr., 1902. p. 18.	Address of—	
temporary chairman, at international good roads congress, held at Buffalo, N. Y., Sept. 16–21, 1901. p. 11.  Road building in Ohio. 1895. p. 16.  Road work, objectlesson, Governmentcooperation in. 1901. p. 409.  Roads— good, work of Federal Government for. 1902. p. 43.  good, work of Federal Government for. 1902. p. 43.  A22, 3:23  steel-track wagon. 1898. p. 291.  See also, for reports as Director, Office of Road Inquiry, 1898; Director of Office of Public Road Inquiries, 1900 to 1902.  Dodge, Richard E. Diurnal winds on faint gradient in north—western New Mexico. 1901. p. 299.  Dodge City, Kansas. Precipitation at, 1889-91. p. 108.  A29, 6:29  Dog tax in England and Scotland. 1867. p. 381.  Dogs:  Breeders of, association of— 1898. p. 615.  1899. p. 697.  1899. p. 697.  1900. p. 652.  1901. p. 628.  Muzzling of, in Germany and Great Britain (Mason). p. 521.  A41,1990.  Ravages of. 1870. p. 135.  Sheep killed by, 1856-03. p. 183.  A27,9-3.  Dogs and Gog laws. p. 450.  Dogs and Gog laws. p. 450.  Dogs and Gog laws. p. 450.  Domestic animals. See Animals—Cow—Diseases of animals—Dogs—Hog—Horse—Pig.  Dorne, Otto. Must farmer pay for good roads? 1898. p. 90.  A26.5:3001  A28.5:23  A29.6:28  A29.6:29  A29.6	before Jefferson memorial and interstate good roads conven-	
temporary chairman, at international good roads congress, held at Buffalo, N. Y., Sept. 16–21, 1901. p. 11.  Road building in Ohio. 1895. p. 16.  Road work, objectlesson, Governmentcooperation in. 1901. p. 409.  Roads— good, work of Federal Government for. 1902. p. 43.  good, work of Federal Government for. 1902. p. 43.  A22, 3:23  steel-track wagon. 1898. p. 291.  See also, for reports as Director, Office of Road Inquiry, 1898; Director of Office of Public Road Inquiries, 1900 to 1902.  Dodge, Richard E. Diurnal winds on faint gradient in north—western New Mexico. 1901. p. 299.  Dodge City, Kansas. Precipitation at, 1889-91. p. 108.  A29, 6:29  Dog tax in England and Scotland. 1867. p. 381.  Dogs:  Breeders of, association of— 1898. p. 615.  1899. p. 697.  1899. p. 697.  1900. p. 652.  1901. p. 628.  Muzzling of, in Germany and Great Britain (Mason). p. 521.  A41,1990.  Ravages of. 1870. p. 135.  Sheep killed by, 1856-03. p. 183.  A27,9-3.  Dogs and Gog laws. p. 450.  Dogs and Gog laws. p. 450.  Dogs and Gog laws. p. 450.  Domestic animals. See Animals—Cow—Diseases of animals—Dogs—Hog—Horse—Pig.  Dorne, Otto. Must farmer pay for good roads? 1898. p. 90.  A26.5:3001  A28.5:23  A29.6:28  A29.6:29  A29.6	before national read conference. July 1804 p. 24	A22.3:25
Road building in Ohio. 1895. p. 16.   A22.3:21	temporary chairman, at international good roads congress.	A22.3:10
Road work, objectlesson, Government cooperation in 1901. p. 409.	held at Buffalo, N. Y., Sept. 16–21, 1901. p. 11.	A22.3:21
Roads	Road building in Ohio. 1895. p. 16.	A22.3:17
good, work of Federal Government for. 1902. p. 43	Road work, object lesson, Government cooperation in. 1901. p. 409.	A1.10:901
Al. 10:896   See also, for reports as Director, Office of Road Inquiry, 1898; Director of Office of Public Road Inquires, 1900 to 1902     Dodge, Richard E. Diurnal winds on faint gradient in northwestern New Mexico. 1901. p. 299   A29.6:29     Dodge City, Kansas. Precipitation at, 1889-91. p. 108   A29.6:29     Dog meat as food in Germany (Guenther). p. 520   A41:900     Dog atx in England and Scotland. 1867. p. 381   A27.9:5     Dogs: Breeders of, association of—		A22.3:23
See also, for reports as Director, Office of Road Inquiry, 1898; Director of Office of Public Road Inquiries, 1900 to 1902   Dodge, Richard E. Diurnal winds on faint gradient in northwestern New Mexico. 1901. p. 299	relation of, to rural population. 1902. p. 34	A22.3:23
Director of Office of Public Road Inquiries, 1900 to 1902	steel-track wagon. 1898. p. 291	A1.10:898
Dodge Richard E. Diurnal winds on faint gradient in northwestern New Mexico. 1901. p. 299	Director of Office of Public Road Inquiries 1900 to 1909	A 99 1 ·
A29.6:29   A29.6:29   A29.6:29   A29.6:29   A29.6:29   A29.6:20   A29.6:29   A29.6:29   A29.6:29   A29.6:29   A29.6:29   A27.9:5   A29.6:29   A27.9:5   A2	Dodge, Richard E. Diurnal winds on faint gradient in north-	
Dog meat as food in Germany (Guenther).         p. 520.         A4.1:900           Dog tax in England and Scotland.         1867.         p. 381.         A27.9:5           Dogs:         Breeders of, association of—         1898.         p. 615.         A1.10:898           1899.         p. 697.         A1.10:899         A1.10:899           1900.         p. 626.         A1.10:901           Muzzling of, in Germany and Great Britain (Mason).         p. 521.         A4.1:900           Ravages of.         1870.         p. 135.         A27.9:4           Sheep killed by, 1858-63.         p. 183.         A27.9:4         A27.9:5           Dogs and dog laws.         p. 450.         A27.9:8         A27.9:5           Dogs and dog laws.         p. 450.         A1.1863         A27.9:5           Domestic animals.         See Alimals—Cow—Diseases of animals—Dogs—Hog—Hog—Horse—Pig.         A1.10:863         A1.19.901           Domestic science, teaching, in rural districts (Breed).         1902.         p. 91.         A3.1:20           Dominica, W. I.         Weather bureau in, note on (Abbe).         1900.         p. 252.         A29.6:28           Dorner, Otto.         Must farmer pay for good roads?         1898.         A29.6:28         A29.6:28           Dorr, S. M.	western New Mexico. 1901. p. 299	A29.6:29
Dog tax in England and Scotland. 1867. p. 381	Dodge City, Kansas. Precipitation at, 1889–91. p. 108	A29.6:20
Dogs:   Breeders of, association of—	Dog tex in England and Scotland 1867 n 381	A4.1:900 A27 9.5
1898. p. 615	•	1127.0.0
1899. p. 697		
1900. p. 652	1898. p. 615	A1.10:898
1901. p. 626		
Ravages of. 1870. p. 135.   A27.9:8	1901. p. 626	A1.10:901
Sheep killed by, 1858-63. p. 183		
same. 1867. p. 84 Dogs and dog laws. p. 450 Dogwood saw-fly, report on. 1890. p. 239 Domestic animals. See Animals—Cow—Diseases of animals—Dogs—Hog—Horse—Pig. Domestic science, teaching, in rural districts (Breed). 1902. p. 91 Same (Jacobs). 1902. p. 96. Dominica, W. I. Weather bureau in, note on (Abbe). 1900. p. 252 Doran, Edwin W. Insects, vernacular names of. 1898. p. 90. Dorner, Otto. Must farmer pay for good roads? 1898. p. 90. Dorset, Marion: Eggs, use of, as medium for cultivation of bacillus tuberculosis. p. 574. Hog cholera bacillus, variety of, which closely resembles bacillus typhosus. p. 566. Tuberculosis bacillus, new stain for. p. 326. See also, as collaborator, De Schweinitz, Emil Alexander. Dorsett, Palemon H. Spot disease of violet. 1900. See also, as joint author, Woods, Albert Fred. Dorsey, Clarence Wilbur. Soil survey around Lancaster, Pa. p. 61. Dorsey, Clarence Wilbur, and Bonsteel, Jay Allan: Cecil Co., Md., soil survey of. p. 103. Connecticut Valley, soil survey in. 1900. p. 125. Dorsey, Clarence Wilbur, and Coffey, George N. Soil survey of Ale.5:900¹ Dorsey, Clarence Wilbur, and Coffey, George N. Soil survey of Ale.5:900¹ Dorsey, Clarence Wilbur, and party. Soil survey of Statesville area, North Carolina. p. 273. Dorsey, N. Ernest: Atmospheric radiation, Professor Very's memoir on, review of, 1900. p. 395 Selenium and its use for measurement of sunshine. 1899. p. 99. A27.9:5 Al.1:863 A27.9:5 Al.1:863 A9.7:2 A10.3:120 A10.3:120 A29.6:28 A41.391 A41.391 A4.1:901 A4.1:901 A4.1:901 A4.1:901 A4.1:901 A4.1:901 A4.1:808 A26.5:900¹ A26.5:900²	Ravages of. 1870. p. 135	A27.9:8
Dogs and dog laws. p. 450.  Dogwood saw-fly, report on. 1890. p. 239.  Domestic animals. See Animals—Cow—Diseases of animals—Dogs—Hog—Horse—Pig.  Domestic science, teaching, in rural districts (Breed). 1902. p. 91. Same (Jacobs). 1902. p. 96.  Dominica, W. I. Weather bureau in, note on (Abbe). 1900. p. 252.  Doran, Edwin W. Insects, vernacular names of. 1898. p. 90. A29.6:28  Dorner, Otto. Must farmer pay for good roads? 1898. A29.6:17  Dorner, Otto. Must farmer pay for good roads? 1898. A29.6:17  Dorner, S. M. Marbles of Rutland County, Vermont. p. 448. A22.4:31  Dorr, S. M. Marbles of Rutland County, Vermont. p. 448. A22.4:31  Dorr, S. M. Marbles of Rutland County, Vermont. p. 448. A21.1:862  Dorset, Marion:  Eggs, use of, as medium for cultivation of bacillus tuberculosis. p. 574. A41:901  Tubercle bacillis, variety of, which closely resembles bacillus typhosus. p. 566. A41:901  Tubercle bacilli, branched forms of, found in cultures. p. 572. A41:901  Tuberculosis bacillus, new stain for. p. 326. A41:901  Tuberculosis bacillus, new stain for. p. 326. A41:901  A41:901  A41:901  A41:901  A42:901  A42:901  A42:901  A42:900  A28.3:23  See also, as collaborator, De Schweinitz, Emil Alexander.  Dorsey, Clarence Wilbur, Soil survey around Lancaster, Pa. p. 61.  Dorsey, Clarence Wilbur, and Bonsteel, Jay Allan:  Cecil Co., Md., soil survey of. p. 103. A26.5:900¹  Dorsey, Clarence Wilbur, and Coffey, George N. Soil survey of Montgomery Co., Ohio. p. 85  Dorsey, Clarence Wilbur, and Coffey, George N. Soil survey of A26.5:900¹  Dorsey, Clarence Wilbur, and party. Soil survey of Statesville area, North Carolina. p. 273  Dorsey, N. Ernest:  Atmospheric radiation, Professor Very's memoir on, review of, 1900. p. 395  Selenium and its use for measurement of sunshine. 1899. p. 99.  A29.6:28	same. 1867. p. 84	A27.9:4 A27.9:5
Domestic animals. See Animals—Cow—Diseases of animals—Dogs—Hog—Horse—Pig.  Domestic science, teaching, in rural districts (Breed). 1902. p. 91. Same (Jacobs). 1902. p. 96	Dogs and dog laws. p. 450.	A1.1:863
Hog—Horse—Pig.  Domestic science, teaching, in rural districts (Breed). 1902. p. 91. Same (Jacobs). 1902. p. 96	Dogwood saw-fly, report on. 1890. p. 239.	A9.7:2
Domestic science, teaching, in rural districts (Breed). 1902. p. 91. Same (Jacobs). 1902. p. 96		
Same (Jacobs). 1902. p. 96.  Dominica, W. I. Weather bureau in, note on (Abbe). 1900. p. 252. Doran, Edwin W. Insects, vernacular names of. 1898. p. 90.  Dorner, Otto. Must farmer pay for good roads? 1898	Domestic science, teaching, in rural districts (Breed), 1902, p. 91	A10.3:120
Doran, Edwin W. Insects, vernacular names of. 1898. p. 90	Same (Jacobs). 1902. p. 96.	A10.3:120
Dorner, Otto. Must farmer pay for good roads? 1898	Dominica, W. I. Weather bureau in, note on (Abbe). 1900. p. 252.	A29.6:28
Dorr, S. M. Marbles of Rutland County, Vermont. p. 448	Dorner Otto Must farmer pay for good roads? 1898	A9.0:17 A22 4:31
Dorset, Marion:  Eggs, use of, as medium for cultivation of bacillus tuberculosis. p. 574  Hog cholera bacillus, variety of, which closely resembles bacillus typhosus. p. 566  Tubercle bacilli, branched forms of, found in cultures. p. 572. Tuberculosis bacillus, new stain for. p. 326  See also, as collaborator, De Schweinitz, Emil Alexander.  Dorsett, Palemon H. Spot disease of violet. 1900.  See also, as joint author, Woods, Albert Fred.  Dorsey, Clarence Wilbur. Soil survey around Lancaster, Pa. p. 61.  Dorsey, Clarence Wilbur, and Bonsteel, Jay Allan: Cecil Co., Md., soil survey of. p. 103. Connecticut Valley, soil survey in. 1900. p. 125.  Dorsey, Clarence Wilbur, and Coffey, George N. Soil survey of Montgomery Co., Ohio. p. 85.  Dorsey, Clarence Wilbur, and party. Soil survey of Statesville area, North Carolina. p. 273.  Dorsey, N. Ernest: Atmospheric radiation, Professor Very's memoir on, review of, 1900. p. 395  Selenium and its use for measurement of sunshine. 1899. p. 99.  A4.1:901		
P. 574 Hog cholera bacillus, variety of, which closely resembles bacillus typhosus. p. 566 Tubercle bacilli, branched forms of, found in cultures. p. 572 Tuberculosis bacillus, new stain for. p. 326 See also, as collaborator, De Schweinitz, Emil Alexander.  Dorsett, Palemon H. Spot disease of violet. 1900 See also, as joint author, Woods, Albert Fred.  Dorsey, Clarence Wilbur. Soil survey around Lancaster, Pa. p. 61 Dorsey, Clarence Wilbur, and Bonsteel, Jay Allan: Cecil Co., Md., soil survey of. p. 103 Connecticut Valley, soil survey in. 1900. p. 125 Dorsey, Clarence Wilbur, and Coffey, George N. Soil survey of Montgomery Co., Ohio. p. 85 Dorsey, N. Ernest: Atmospheric radiation, Professor Very's memoir on, review of, 1900. p. 395 Selenium and its use for measurement of sunshine. 1899. p. 99 A29.6:27	Dorset, Marion:	
Hog cholera bacillus, variety of, which closely resembles bacillus typhosus. p. 566.  Tubercle bacilli, branched forms of, found in cultures. p. 572. Tuberculosis bacillus, new stain for. p. 326.  See also, as collaborator, De Schweinitz, Emil Alexander.  Dorsett, Palemon H. Spot disease of violet. 1900.  See also, as joint author, Woods, Albert Fred.  Dorsey, Clarence Wilbur. Soil survey around Lancaster, Pa. p. 61.  Dorsey, Clarence Wilbur, and Bonsteel, Jay Allan: Cecil Co., Md., soil survey of. p. 103. Connecticut Valley, soil survey in. 1900. p. 125.  Dorsey, Clarence Wilbur, and Coffey, George N. Soil survey of Montgomery Co., Ohio. p. 85.  Dorsey, Clarence Wilbur, and party. Soil survey of Statesville area, North Carolina. p. 273.  Dorsey, N. Ernest: Atmospheric radiation, Professor Very's memoir on, review of, 1900. p. 395.  Selenium and its use for measurement of sunshine. 1899. p. 99.  A4.1:901  A28.3:23  A26.5:900¹  A26.5:900¹  A26.5:900¹  A26.5:900¹  A26.5:900¹  A26.5:900¹  A26.5:901¹  A26.5:901¹  A26.5:901¹  A26.5:901¹		A 4 1 .001
typhosus. p. 566.  Tubercle bacilli, branched forms of, found in cultures. p. 572.  Tuberculosis bacillus, new stain for. p. 326  See also, as collaborator, De Schweinitz, Emil Alexander.  Dorsett, Palemon H. Spot disease of violet. 1900.  See also, as joint author, Woods, Albert Fred.  Dorsey, Clarence Wilbur. Soil survey around Lancaster, Pa. p. 61.  Dorsey, Clarence Wilbur, and Bonsteel, Jay Allan:  Cecil Co., Md., soil survey of. p. 103.  Connecticut Valley, soil survey in. 1900. p. 125.  Dorsey, Clarence Wilbur, and Coffey, George N. Soil survey of  Montgomery Co., Ohio. p. 85.  Dorsey, Clarence Wilbur, and party. Soil survey of Statesville area, North Carolina. p. 273.  Dorsey, N. Ernest:  Atmospheric radiation, Professor Very's memoir on, review of, 1900. p. 395.  Selenium and its use for measurement of sunshine. 1899. p. 99.  A4.1:901  A26.5:901  A26.5:900  A26.5:900  A26.5:900  A26.5:901  A26.5:901  A26.5:901	How cholers bacillus variety of which closely resembles bacillus	
See also, as collaborator, De Schweinitz, Emil Alexander.  Dorsett, Palemon H. Spot disease of violet. 1900. A28.3:23  See also, as joint author, Woods, Albert Fred.  Dorsey, Clarence Wilbur. Soil survey around Lancaster, Pa. p. 61.  Dorsey, Clarence Wilbur, and Bonsteel, Jay Allan:  Cecil Co., Md., soil survey of. p. 103. A26.5:900¹  Connecticut Valley, soil survey in. 1900. p. 125. A1.8:64  Dorsey, Clarence Wilbur, and Coffey, George N. Soil survey of Montgomery Co., Ohio. p. 85. A26.5:900¹  Dorsey, Clarence Wilbur, and party. Soil survey of Statesville area, North Carolina. p. 273. A26.5:901¹  Dorsey, N. Ernest:  Atmospheric radiation, Professor Very's memoir on, review of, 1900. p. 395  Selenium and its use for measurement of sunshine. 1899. p. 99. A29.6:28	typhosus. p. 566.	A4.1:901
See also, as collaborator, De Schweinitz, Emil Alexander.  Dorsett, Palemon H. Spot disease of violet. 1900. A28.3:23  See also, as joint author, Woods, Albert Fred.  Dorsey, Clarence Wilbur. Soil survey around Lancaster, Pa. p. 61.  Dorsey, Clarence Wilbur, and Bonsteel, Jay Allan:  Cecil Co., Md., soil survey of. p. 103. A26.5:900¹  Connecticut Valley, soil survey in. 1900. p. 125. A1.8:64  Dorsey, Clarence Wilbur, and Coffey, George N. Soil survey of Montgomery Co., Ohio. p. 85. A26.5:900¹  Dorsey, Clarence Wilbur, and party. Soil survey of Statesville area, North Carolina. p. 273. A26.5:901¹  Dorsey, N. Ernest:  Atmospheric radiation, Professor Very's memoir on, review of, 1900. p. 395  Selenium and its use for measurement of sunshine. 1899. p. 99. A29.6:28	Tubercle bacilli, branched forms of, found in cultures. p. 572	A4.1:901
Dorsett, Palemon H. Spot disease of violet. 1900	Tuderculosis dacilius, new stain for. p. 326	A4.1:898
See also, as joint author, Woods, Albert Fred.  Dorsey, Clarence Wilbur. Soil survey around Lancaster, Pa. p. 61.  Dorsey, Clarence Wilbur, and Bonsteel, Jay Allan: Cecil Co., Md., soil survey of. p. 103. Connecticut Valley, soil survey in. 1900. p. 125.  Dorsey, Clarence Wilbur, and Coffey, George N. Soil survey of Montgomery Co., Ohio. p. 85.  Dorsey, Clarence Wilbur, and party. Soil survey of Statesville area, North Carolina. p. 273.  Dorsey, N. Ernest: Atmospheric radiation, Professor Very's memoir on, review of, 1900. p. 395. Selenium and its use for measurement of sunshine. 1899. p. 99.  A26.5:900¹	Dorsett. Palemon H. Spot disease of violet. 1900.	A28.3:23
Dorsey, Clarence Wilbur, and Bonsteel, Jay Allan: Cecil Co., Md., soil survey of. p. 103 Connecticut Valley, soil survey in. 1900. p. 125 Dorsey, Clarence Wilbur, and Coffey, George N. Soil survey of Montgomery Co., Ohio. p. 85 Dorsey, Clarence Wilbur, and party. Soil survey of Statesville area, North Carolina. p. 273 Dorsey, N. Ernest: Atmospheric radiation, Professor Very's memoir on, review of, 1900. p. 395 Selenium and its use for measurement of sunshine. 1899. p. 99 A26.5:900  A26.5:900  A26.5:900  A26.5:901  A26.5:901	See also, as joint author, Woods, Albert Fred	
Cecil Co., Md., soil survey of. p. 103  Connecticut Valley, soil survey in. 1900. p. 125  Dorsey, Clarence Wilbur, and Coffey, George N. Soil survey of  Montgomery Co., Ohio. p. 85  Dorsey, Clarence Wilbur, and party. Soil survey of Statesville  area, North Carolina. p. 273  Dorsey, N. Ernest:  Atmospheric radiation, Professor Very's memoir on, review of,  1900. p. 395  Selenium and its use for measurement of sunshine. 1899. p. 99.  A26.5:900¹  A26.5:900¹  A26.5:900¹  A26.5:900¹  A26.5:900¹  A26.5:900¹  A26.5:901¹  A26.5:901²	Dorsey, Clarence Wilbur. Soil survey around Lancaster, Pa. p. 61.	A26.5:900 <sup>1</sup>
Dorsey, Clarence Wilbur, and Coffey, George N. Soil survey of Montgomery Co., Ohio. p. 85.  Dorsey, Clarence Wilbur, and party. Soil survey of Statesville area, North Carolina. p. 273.  Dorsey, N. Ernest: Atmospheric radiation, Professor Very's memoir on, review of, 1900. p. 395.  Selenium and its use for measurement of sunshine. 1899. p. 99.  A26.5:900¹  A26.5:901¹  A26.5:901²	Cecil Co Md soil survey of p 103	A26 5-900 1
Dorsey, Clarence Wilbur, and Coffey, George N. Soil survey of Montgomery Co., Ohio. p. 85.  Dorsey, Clarence Wilbur, and party. Soil survey of Statesville area, North Carolina. p. 273.  Dorsey, N. Ernest: Atmospheric radiation, Professor Very's memoir on, review of, 1900. p. 395.  Selenium and its use for measurement of sunshine. 1899. p. 99.  A26.5:900¹  A26.5:901¹  A26.5:901²	Connecticut Valley, soil survey in. 1900. p. 125	A1.8:64
area, North Carolina. p. 273	Dorsey, Clarence Wilbur, and Coffey, George N. Soil survey of	
area, North Carolina. p. 273	Montgomery Co., Ohio. p. 85	A26.5:900 <sup>1</sup>
Dorsey, N. Ernest: Atmospheric radiation, Professor Very's memoir on, review of, 1900. p. 395 Selenium and its use for measurement of sunshine. 1899. p. 99. A29.6:27	area. North Carolina. p. 273	A26.5:901 1
Atmospheric radiation, Professor Very's memoir on, review of, 1900. p. 395	Dorsey, N. Ernest:	
Selenium and its use for measurement of sunshine. 1899. p. 99 A29.6:28 Sky light, blue, color and polarization of. 1901. p. 382 A29.6:28	Atmospheric radiation, Professor Very's memoir on, review of,	100.000
Sky light, blue, color and polarization of. 1901. p. 382	Salanium and its use for measurement of sunahing 1900 n 00	A29.6:28 A90 8.97
	Sky light, blue, color and polarization of. 1901. p. 382	A29.6:28

	Classification no.
Double-brooded codling moth, report of (Marlatt). 1894. p. 248	A9.7:7
Doudna, Pearl Eugene, short biography of (Cajori). 1900. p. 202.	A29.6:28
Douglass, Kans., sorghum sugar experiments at (Edson). p. 278	A1.1:888
Same. p. 94 Same (Wiley). p. 13	A7.3:20
Dowling, N. J. Address of, before national road conference, July,	A7.3:20
1894. p. 35	A22.3:10
Downton, England, College of Agriculture at, report on. 1885.	1122.0.10
p. 64.	A1.8:36
Downy mildew. See Grape.	
Draft upon horses (Fulton). p. 511	A4.1:898
Drainage:	
Surface, regulation of. 1884. No. 5. p. 19.	A27.9:22
Upper Chagres River (Abbot). 1900. p. 243	A29.6:28
Well waters and, lecture on (Warington). 1892. p. 95	A10.3:8
See also Farm drainage—Underdraining.  Drainage water, loss of soil fertility in. 1898. p. 4	' A 1 Q.72
Draining, tile, results of. 1882. p. 43	A1.8.73 A97 Q.90
Drake, John W. Oregon, facts concerning. p. 584	A1.1:869
Drake, W. E.:	111.1.000
Agricultural and Mechanical College, relation of, to State. 1901.	
р. 183	A10.3:99
Mechanical work, what, shall we give to students of our agricul-	•
tural colleges? 1895. p. 71	A10.3:24
Draper, Daniel:	100 0 00
Precipitation at New York City, 1870–91. p. 79	A29.6:20
Thermometers, registering maximum and minimum, relative merits of various types of. 1896. p. 710	A 90 2.11 8
Drasteria erechtea, report on (Slingerland). 1892. p. 87	
Drennen, W. M. Address of, before good roads convention at Bir-	
mingham, Ala. 1902. p. 30.	A22.3:23
Dressed meat. See Meat.	
Dried apples:	
American, in Hamburg, 1894 (Robertson). p. 12	A7.3:48
same, in Cologne, 1895 (Wamer). p. 14	
same, in Germany, 1895 (Mason). p. 15	
same, in German Empire	A12.4.2
Driscoll, B. O. Grasshoppers, western, suggestions regarding.	
1869. p. 145	A27.9:7
Drought:	
Agriculture and (Abbe). 1895. p. 426.	A29.6:23
Crops and (Abbe). 1895. p. 381	
Distant regions (Abbe). 1895. p. 381	A29.6:23
England. 1870. p. 434. Famines and, in India (Eliot). 1895. p. 444	A21.9:8
same (Archibald). 1900. p. 246.	A29 6.28
Fire and, in the northwest. 1871. p. 401.	A27.9:9
Great, of 1845 in northern Ohio (Ford). p. 293	A29.6:23
Heat, and insect life (Mintfeldt). 1902. p. 97	
Historic, in U.S., notes on (Abbe). 1898. p. 262	A29.6:26
Insurance against, note on (Abbe). 1898. p. 214	A29.6:26
Mississippi, southwest, in 1899 (Hazen). p. 151	
Mississippi Valley (Abbe). 1895. p. 337.	A29.6:23 A29.3:11 <sup>1</sup>
Prediction of, in India (Dallas). 1894. p. 13	A28.3:11 - A90 R:97
Drug laws. See Pharmacy and drug laws.	A20.U.21
Druge:	
Adulteration of, extent and character of (Wedderburn). 1894	A7.3:41
Insects injuring, at University of Kansas (Kellogg). 1894. p. 31	
See also Opium — Potassium.	
Dry goods, imports of, comparison of, 1866-68. p. 32.  Dryden, James. Egg production, experiments in. p. 506.	A27.9:6
Dryden, James. Egg production, experiments in. p. 506	A4.1:898
Dubernard method for examination of butters (Sartori). 1890. p.	A7.3:24
Dublin, Ireland, dead animals in, disposition of (Wilbour). p. 347.	A4.1.899
Du Bois, James T. Horses, cattle, etc., in Switzerland. p. 520	

	Classification no.
Du Buysson, H. Carbon bisulphide, fumigation with, for complete	
and rapid destruction of insects which attack herbarium speci-	
mens, furs, woolens, etc. 1893. p. 159	A9.7:6
Ducks:	
Animal parasites of, check-list of (Hassall). 1896	
Feeding, recent experiments in (Langworthy). 1899. p. 20  Ducks and geese, standard breeds and management of (Howard)	A1.9:107 A1.9:64
Dudley, P. H. Timber ties, structure, behavior, and causes of decay	A1.0.01
of, in roadbed; with experiments on adhesion of spikes. 1887.	
p. 31	A13.3:1
Duenckel, F. W. See, as joint author, Hammon, William H.	
Dugès, Eugène. Leonia Rileyi, description of, new meloid genus	
near Hornia. 1889. p. 211	A9.7:1
Duggar, John Frederick:	4 4 7 000
Corn, cowpeas, and wheat bran for fattening pigs. p. 496	A4.1:898
Peanuts, cowpeas, and sweet potatoes as food for hogs. p. 501	A4.1:898 A1.9:35
Potato culture. 1896	A1.9:26
Duluth, Minn., temperatures at (Richardson). p. 463	
Dumble, E. T. Artesian waters, existence of, west of ninety-seventh	322010121
meridian, etc. 1890. p. 99	A15.2:Ar7
Duncan, T. C. Ostrich farming in America. p. 685	A1.1:888
Dunlap, Albert. Swine-plague in Iowa. 1879. p. 135	A1.6:12
Dunlap, M. L. Agricultural machinery and implements. p. 416	
Dunn, H. D. California, agricultural resources of. p. 581	A1.1:866
Dunwoody, H. H. C.: Address of—	
as president of American Association of State Weather Services	
at third annual convention, Brooklyn, N. Y. 1894. p. 8.	
as president of American Association of State Weather Services	
at fourth annual convention, Indianapolis, Ind. 1896. p. 10.	A29.3:18
Meteorological observations, international, summary of. 1893	A29.5:A
Nebraska, departures from normal temperature and rainfall, with	
crop yields in. 1896. Signals, Weather Bureau. 1892. p. 35	A29.2:N27
Signals, Weather Bureau. 1892. p. 35	A29.3:7
State weather services, functions of. 1894. p. 9	A29.3:11 <sup>1</sup> A29.3:11 <sup>2</sup>
Storm warnings and weather forecasts, monthly notes on. Oct.,	A20.5.11
1897-Apr., 1898.	A29.6:
Weather conditions and crops—	
1891. p. 586	A1.1:891
same. p. 586	A29.1:891 <sup>2</sup>
1892. p. 578	
same. p. 578	
1893. p. 113	
1894. p. 529	
Weather forecasts, value of. 1894. p. 121	A1.10:894
Dupont, C. H. Seed, selection of, importance of. 1873. p. 553	A27.9:11
Durham, H. E. See, as joint author, Kanthack, A. A.	
Dust:	
Atmospheric—	400.00
note on (Abbe). 1899. p. 63	A29.0:27
same, on C. S. Rafinesque on (Abbe). 1900. p. 291 observations on (Aitkin). 1896. p. 734	A29.0:28
Rains of, note on (Abbe). 1899. p. 158.	A29.6.27
Red, of March, 1901, notes on (Abbe). p. 316	A29.6:29
Red, of March, 1901, notes on (Abbe). p. 316	A29.6:23
Dust storm and mud shower, note on (Kimball). 1902. p. 269	A29.6:30
Dust storms:	İ
Burma and elsewhere, notes on (Abbe). 1901. p. 175	A29.6:29
Note on (Abbe). 1895. p. 57	A29.6:23
Note on (Abbe). 1895. p. 57.  Red rain and, notes on (Abbe). 1901. p. 120.  Dust whirl and fairy dances, notes on (Abbe). 1899. p. 111	A20.0:29
Dust whirls or denoing dervishes (Kimbell) 1009 x 218	A 20 R 20
Dust whirls, or dancing dervishes (Kimball). 1902. p. 316	
p. 277	A9.7:1
p	<del></del>

•	Classification no.
Dyar, Harrison Gray:	
Lépidopterous larvæ, description of certain. 1890. p. 61	
same. 1891. p. 389. Sphingidæ and Bombycidæ taken by electric lamps at Pough-	A9.7:3
keepsie, N. Y., list of. 1891. p. 322	A9.7:3
1890. p. 360	A9.7:2
Dye, Franklin. Farmers' institutes and agricultural associations, relations between. 1902. p. 44	A10.3:110
relations between. 1902. p. 44  Dyea, Alaska, agricultural work at, during season of 1901	11011001
(Nicolai). p. 312 Dyer, Bernard. Rothamsted soils, results of investigations on,	A10.12:901
being lectures delivered under provisions of Lawes agricul-	A 10 9.100
tural trust. 1902	A10.3:106
governor's message. p. 9.  Dyer, Reuben F. Swine-plague at Ottawa, Ill. 1879. p. 156	A22.4:33
Dyer, Reuben F. Swine-plague at Ottawa, Ill. 1879. p. 156	A1.6:12
Dver's madder, culture of (Newton). 1866. p. 94 [Also issued as 39th Cong., 1st sess., 8. mis. doc. 72; serial no. 1239.]	A27.9:4
Eadie, John H.:	
Clouds, cumulus, observed at burning of Standard Oil Company's plant, July 5, 6, and 7, 1900, Bayonne, N. J. 1900.	
p. 433. Tornado in Hudson County, N. J., on Aug. 24, 1901. p. 355	A29.6:28
	A29.6:29
Eagle, Alaska: Meteorological observations at (Henry). 1900. p. 390	A29.6:28
Trail from, to Valdez, reconnoissance of (Jones). p. 283	A10.12:901
Eagles Mere, Pa. Tornado at, June 27, 1892, report of (Ball). p. 309.	A.29.6:20
Ear diseases of cattle (Trumbower). p. 367	A4.2:C29 <sup>2</sup>
Fig culture in Gulf States. 1897. p. 23.	A20.3:5
Fungicides, experiments with. 1889. p. 83	A6.3:11
Trucking interests, development of. 1900. p. 437. Earle, H. S. Road building, etc., facts and suggestions. 1901.	
p. 87	A22.3:21
p. 87.  Earth almond, or chufa, cultivation of. 1876. p. 37.  Earth and Mars, notes on (Abbe). 1900. p. 543.	A27.9:14
Earth and Mars, notes on (Abbe). 1900. p. 543	A29.6:28
p. 522	A29.3:11 <sup>2</sup>
p. 522  Earthquake-proof buildings, note on (Abbe). 1897. p. 309.	A29.6:25
_ Same (Abbe). 1801. p. 007	A29.6:29
Earthquakes: At sea (Abbe). 1895. p. 380	<b>4 9</b> 0 €∙93
Carson City, Nev., 1875–98. (Friend). p. 64	A29.6:28
Central and South America, notes on (Abbe). 1898. p. 365	A29.6:26
How to observe (Abbe). 1895. p. 340	A29.6:23
Montana, notes on (Abbe). 1901. p. 175	A29.6:29
Monthly notes on, June, 1897–Apr., 1899 (Abbe)	A29.6:
New Brunswick, notes on (Abbe). 1898. p. 266	A29.6:26
Nov. 27, 1893 (Abbe). p. 332	A29.6:21
Sept. 1, 1895 (Abbe). p. 339	A29.6:23
Oct. 31, 1895 (Marvin). p. 374	A29.6:23
Earth roads. See Roads. Earths. See Alumina.	
Earthshine, variability of, some causes of (Kimball). 1901. p. 209.	A29.6:29
East Asian fruits, sketch of relationship between American fruits	
and (Bailey). 1894. p. 437	A1.10:894
Agricultural courses in, principles underlying formation of. 1900.	
p. 65	A10.3:76
p. 65 Arbor-day planting in Meadows and pastures in, formation and cultivation (Smith)	A13.4:5
Meadows and pastures in, formation and cultivation (Smith)	A1.9:66
Koads and road-making materials in certain. 1894	A22.3:7
Easton, E. C. Climate and thought. 1902. p. 111	A20.3:31

Eaton, Daniel C.: Ferns from southern Patagonia, collected by U. S. S. "Albatross" in 1887-91, list of. 1892. p. 138.  Mosees from Fucçia and Patagonia, collected by U. S. S. "Albatross" in 1887-91, list of. 1892. p. 138.  Eatonia, two new species of, note on p. 6.  Eatonia, two new species of, note on p. 6.  Eatonia, two new species of, note on p. 6.  Eatonia, two new species of, note on p. 6.  Eatonia, two new species of, note on p. 6.  Echierman, W. S. Cheese, national standard for. 1893. p. 60.  Echierman, W. S. Cheese, national standard for. 1893. p. 60.  Echierman, W. S. Cheese, national standard for. 1893. p. 60.  Echierman, W. S. Cheese, national standard for. 1893. p. 60.  Echietti, J. W.:  Echierman from California and Mexico, collected by Edward Palmer, from 1888 to 1892, list of. 1893. p. 291  Lichens from California and Mexico, collected by Edward Palmer, from 1888 to 1892, list of. 1893. p. 291  Lichens from California and Mexico, collected by Edward Palmer, from 1888 to 1892, list of. 1893. p. 291  Lichens from Salifornia and Mexico, collected by Edward Palmer, from 1888 to 1892, list of. 1893. p. 291  Lichens from Salifornia and Mexico, collected by Edward Palmer, from 1888 to 1892, list of. 1893. p. 291  Lichens from Salifornia and Mexico, collected by Edward Palmer, from 1888 to 1892, p. 142  A6.5:1  A6	Index	Classification no.
in 1887-91, list of. 1892. p. 138.  Mosses from Fueçia and Patagonia, collected by U. S. S. "Albatross" in 1887-91, list of. 1892. p. 138.  A6.51  Estonia, two new species of, note on p. 6.  Eberman, W. S. Cheese, national standard for. 1893. p. 60.  Eburia quadrimsculata, longevity of early stages of, notes upon (Webster). 1889. p. 339.  Echinocactus, North American species of, preliminary revision of (Coulter). 1896. p. 335.  Eckfeldt, J. W.:  Lichens from California and Mexico, collected by Edward Palmer, from 1888 to 1892, list of. 1893. p. 291.  Lichens from Salifornia and Mexico, collected by U. S. S. "Albatross" in 1887-91, list of. 1892. p. 142.  Eckstein, D. Netherlands, agriculture in, in 1885. 1886. p. 83.  A27.9:24  Eckipse, total, of sun, May 28, 1900:  Advance notes on (Abbe). p. 110.  Eckipse shadow bands and correlated atmospheric phenomena, notes on (Abbe). 1900. p. 210.  Ecology. See Ocracoke Island.  Economic entomology. See Entomology.  Economic ornithology, See Unithology.  Economic ornithology. See Unithology.  Economic ornithology. See Unithology.  Economic entomology. See Unithology.  Economic entomology. See Unithology.  Economic ornithology, See Unithology.  Economic ornithology, See Unithology.  Economic ornithology, See Unithology.  Economic ornithology. See Unithology.  Economic ornithology. See Unithology.  Economic ornithology. See Unithology.  Economic ornithology. See Unithology.  Economic ornithology. See Unithology.  Economic ornithology. See Unithology.  Economic ornithology. See Unithology.  Economic ornithology. See Unithology.  Economic ornithology. See Unithology.  Economic ornithology. See Unithology.  Economic ornithology. See Unithology.  Economic ornithology. See Unithology.  Economic ornithology.   Eaton, Daniel C.:	]	
tross" in 1887-91, list of. 1892. p. 138	Ferns from southern Patagonia, collected by U.S.S. "Albatross"	40 24
tross" in 1887-91, list of. 1892. p. 138	In 1887-91, list of. 1892. p. 138	A6.5:1
Ebernan, W. S. Cheese, national standard for. 1893. p. 60	tross' in 1887-91, list of. 1892. p. 138.	A6.5:1
Eburia quadrimaculata, longevity of early stages of, notes upon (Webster). 1898. p. 339. Echinocactus, North American species of, preliminary revision of (Coulter). 1896. p. 355. Eckfeldt, J. W. Lichens from California and Mexico, collected by Edward Palmer, from 1888 to 1892, list of. 1893. p. 291 Lichens from southern Patagonia, collected by U. S. S. "Albatress" in 1887-91, list of. 1892. p. 142. Eckstein, D. Netherlands, agriculture in, in 1885. 1886. p. 83. Eclipse, total, of sun, May 28, 1990: Advance notes on (Abbe). p. 110. Advance notes on (Abbe). p. 110. Advance notes on (Abbe). p. 110. Advance notes on (Abbe). p. 110. Eclipse meteorology and allied problems (Bigelow). p. 404. A29.6:28 Eclipse matow bands and correlated atmospheric phenomena, notes on (Abbe). 1900. p. 210. Eclipse shadow bands and correlated atmospheric phenomena, notes on (Abbe). 1900. p. 210. Economic entomology. See Entomology. Economic entomology. See Intomology. Economic entomology. See Entomology. Economic entomology. Economic entomology. Economic entomology. Economic entomology. Economic entomology. Economic entomology. Economic entomology. Economic entomology. Economic entomology. Economic entomology. Economic entomology. Economic entomology. Economic entomology. Economic entomology. Economic entomology. Economic entomology. Economic entomology. Economic entomology. Economic	Eatonia, two new species of, note on. p. 6	A3.4:27
(Webster)	Eberman, W. S. Cheese, national standard for. 1893. p. 60	A7.3:41
Coulter   1896, p. 335	(Webster) 1889, n 339	A9 7·1
Coulter   1896, p. 335	Echinocactus, North American species of, preliminary revision of	110.1.1
Lichens from California and Mexico, collected by Edward Palmer, from 1888 to 1892, list of. 1893. p. 291	(Coulter). 1896. p. 355	A6.5:3
mer, from 1888 to 1892, list of. 1893. p. 291		
Lichens from southern Patagonia, collected by U. S. S. "Albatross" in 1887-91, list of 1892. p. 142		A6.5:1
Eckstein, D. Netherlands, agriculture in, in 1885. 1886. p. 83. A27.9:24 Eclipse, total, of sun, May 28, 1900: Advance notes on (Abbe). p. 110	Lichens from southern Patagonia, collected by U. S. S. "Alba-	
Eclipse, total, of sun, May 28, 1900:     Advance notes on (Abbe). p. 110	tross" in 1887–91, list of. 1892. p. 142.	A6.5:1
Advance notes on (Abbe). p. 110		A21.8:24
Eclipse meteorology and allied problems (Bigelow). 1902	Advance notes on (Abbe), p. 110	A29.6:28
Eclipse shadow bands and correlated atmospheric phenomena, notes on (Abbe). 1900. p. 210.  Ecology. See Ocracoke Island. Economic entomology. See Entomology. Economic ornithology. See Ornithology. Economic plants, catalogue of collection of, in Agriculture Department (Saunders). 1891.  A27.9:29  Ecuador:  Agriculture in. 1891. p. 484  Meteorology in, note on (Abbe). 1900. p. 67  See also Galapagos Islands, S. A. — Playa Rica.  Eddy, William A:  Kite experiments, record of some. 1898. p. 450.  Weather prediction, experiments in. 1899. p. 96.  Edelmann, M. Th. Earth-magnetic instruments, on construction of. 1895. p. 552.  Edible oils and fats, methods for analysis of, not including dairy products (Tolman). 1901.  Same (Tolman). 1902. p. 20.  Edimurds, J. M. Forests, paper on. 1869. p. 22.  Edimurds, J. M. Forests, paper on. 1869. p. 22.  Edson, Hubert:  Calumet Plantation, sugar experiment station, Pattersonville, La, record of experiments at. 1889.  Calumet Plantation, sugar experiment station, Pattersonville, La, record of experiments at. 1889.  Sorghum analysis at Rio Grande, N. J. 1888. p. 20.  A11.887  A7.3:23  Sorghum sugar experiments at Douglass, Kans. p. 278.  A11.887  A7.3:17  Sorghum sugar experiments at Douglass, Kans. p. 278.  Modern, what is of most worth in, address on (Stubbs). 1901. p. 32  Theory of higher, some recent changes in—  1899. (Stryan). p. 87  A10.3:65  A22.2:Ed8  Educational forces in U. S. relating to agriculture, cooperation of Department of Agriculture with (Willits). p. 65.  A1.1:891	Probable state of sky along path of (Bigelow). p. 404	A29.6:26
Cology. See Ocracoke Island.   Economic entomology. See Entomology. Economic ornithology. See Entomology. Economic ornithology. See Ornithology.   Economic plants, catalogue of collection of, in Agriculture Department (Saunders). 1891.   A1.8:47	Eclipse meteorology and allied problems (Bigelow). 1902	A29.5:1
Ecology. See Ocracoke Island.  Economic entomology. See Intomology. Economic plants, catalogue of collection of, in Agriculture Department (Saunders). 1891.  Ecuador: Agriculture in. 1891. p. 484. Meteorology in, note on (Abbe). 1900. p. 67. See also Galapagos Islands, S. A. — Playa Rica. Eddy, William A.: Kite experiments, record of some. 1898. p. 450. Lagorithm, M. Th. Earth-magnetic instruments, on construction of. 1895. p. 522. Edible oils and fats, methods for analysis of, not including dairy products (Tolman). 1901. Same (Tolman). 1902. p. 20. Edimburgh, Scotland. International forestry exhibition at, 1884, report of (Riley). p. 167. Edmunds, J. M. Forests, paper on. 1869. p. 22. Edson, Hubert: Calumet Plantation, sugar experiment station, Pattersonville, La., record of experiments at. 1889. Sorghum analysis at Rio Grande, N. J. 1888. p. 20. A7.3:23 Sorghum sugar experiments at 1889. Same, abstract. p. 250. A11:884 A7.3:23 Though a sugar experiments at Douglass, Kans. p. 278. A1:1:888 same, abstract. p. 71 Sorghum sugar experiments at Douglass, Kans. p. 278. A1:1:888 A7.3:20 Theory of higher, some recent changes in— 1899. (Stubbs). p. 97 A10.3:65 See also Agricultural education—Technical educatiox. Education, Commissioner of, correspondence with, relative to good roads. 1896. Educational forces in U. S. relating to agriculture, cooperation of Department of Agriculture with (Willits). p. 65. A1.1:891	on (Abbe). 1900. p. 210	A29.6:28
Economic ornithology. See Ornithology. Economic plants, catalogue of collection of, in Agriculture Department (Saunders). 1891.  Ecuador: Agriculture in. 1891. p. 484. Meteorology in, note on (Abbe). 1900. p. 67. See also Galapagos Islands, S. A. — Playa Rica.  Eddy, William A.: Kite experiments, record of some. 1898. p. 450. Weather prediction, experiments in. 1899. p. 96.  Edelmann, M. Th. Earth-magnetic instruments, on construction of. 1895. p. 522  Edible oils and fats, methods for analysis of, not including dairy products (Tolman). 1901. Same (Tolman). 1902. p. 20.  Edinburgh, Scotland. International forestry exhibition at, 1884, report of (Riley). p. 167  Edmunds, J. M. Forests, paper on. 1869. p. 22.  Edson, Hubert: Calumet Plantation, sugar experiment station, Pattersonville, La., record of experiments at. 1889. Sorghum analysis at Rio Grande, N. J. 1888. p. 20.  A7.3:23  Sorghum analysis at Rio Grande, N. J. 1888. p. 20.  A7.3:17  Sorghum sugar experiments at Douglass, Kans. p. 278.  Industrial classes (Andrew). 1864. No. 1. p. 15.  Modern, what is of most worth in, address on (Stubbs). 1901. p. 32.  Theory of higher, some recent changes in— 1899. (Stubbs). p. 97  A10.3:65  See also Agricultural education—Technical educatioc.  Educational forces in U. S. relating to agriculture, cooperation of Department of Agriculture with (Willits). p. 65.  A11:891	Ecology. See Ocracoke Island.	
Economic plants, catalogue of collection of, in Agriculture Department (Saunders). 1891.  Ecuador:  Agriculture in. 1891. p. 484	Economic entomology. See Entomology.	
Mateorology in, note on (Abbe). 1900. p. 67   A27.9:29	Economic plants catalogue of collection of in Agriculture Departs	
Ecuador:     Agriculture in. 1891. p. 484     Meteorology in, note on (Abbe). 1900. p. 67.     See also Galapagos Islands, S. A. — Playa Rica. Eddy, William A.:     Kite experiments, record of some. 1898. p. 450.     Rediv, William A.:     Kite experiments, record of some. 1898. p. 96.     Rediv, William A.:     Kite experiments, record of some. 1898. p. 96.     Rediv, William A.:     Kite experiments, record of some. 1898. p. 96.     Rediv, William A.:     Kite experiments, record of some. 1898. p. 96.     Rediv, William A.:     Rediversity of the service of the servic	ment (Saunders). 1891	A1.8:47
Eddy, William A.:   Kite experiments, record of some. 1898. p. 450	Ecuador:	
Eddy, William A.:   Kite experiments, record of some. 1898. p. 450	Agriculture in. 1891. p. 484	A27.9:29
Eddy, William A.:       Kite experiments, record of some. 1898. p. 450	See also Galapagos Islands, S. A. — Playa Rica.	A28.0.26
Weather prediction, experiments in 1899 p. 96	Eddy, William A.:	
Edelmann, M. Th. Earth-magnetic instruments, on construction of 1895. p. 522  Edible oils and fats, methods for analysis of, not including dairy products (Tolman). 1901.  Same (Tolman). 1902. p. 20.  Edinburgh, Scotland. International forestry exhibition at, 1884, report of (Riley). p. 167.  Edmunds, J. M. Forests, paper on. 1869. p. 22.  Edson, Hubert:  Calumet Plantation, sugar experiment station, Pattersonville, La., record of experiments at. 1889.  Sorghum analysis at Rio Grande, N. J. 1888. p. 20.  Same, abstract. p. 250.  same, abstract. p. 71.  Sorghum sugar experiments at Douglass, Kans. p. 278.  same, p. 94.  Education:  Industrial classes (Andrew). 1864. No. 1. p. 15.  Modern, what is of most worth in, address on (Stubbs). 1901. p. 32.  Theory of higher, some recent changes in— 1899. (Bryan). p. 87.  See also Agricultural education—Technical educatiox.  Education, Commissioner of, correspondence with, relative to good roads. 1896.  Educational forces in U. S. relating to agriculture, cooperation of Department of Agriculture with (Willits). p. 65.  A29.3:11 <sup>2</sup> A7.2:0i5  A7.3:65  A7.3:65  A1.1:884  A27.9:7  A1.1:884  A27.9:7  A1.1:884  A27.9:7  A7.3:23  A7.3:23  A7.3:18  A7.3:23  A7.3:18  A7.3:23  A7.3:23  A7.3:23  A7.3:18  A1.1:887  A7.3:27  A1.1:888  A7.3:20  A10.3:65  A10.3:65  A10.3:65  A10.3:65  A10.3:65  A10.3:65	Kite experiments, record of some. 1898. p. 450	A29.6:26
Edible oils and fats, methods for analysis of, not including dairy products (Tolman). 1901.  Sane (Tolman). 1902. p. 20		A29.6:27
A7.2:0i5   A7.3:65	1895. p. 522	A29.3:11 <sup>2</sup>
Same (Tolman). 1902. p. 20.		
Edinburgh, Scotland. International forestry exhibition at, 1884, report of (Riley). p. 167	ucts (Tolman). 1901	
report of (Riley). p. 167	Edinburgh, Scotland. International forestry exhibition at. 1884.	A7.5.09
Edson, Hubert: Calumet Plantation, sugar experiment station, Pattersonville, La., record of experiments at. 1889.  Sorghum analysis at Rio Grande, N. J. 1888. p. 20.  Same, abstract. p. 250.  Same, abstract. p. 71.  Sorghum sugar experiments at Douglass, Kans. p. 278.  Same, p. 94.  Education:  Industrial classes (Andrew). 1864. No. 1. p. 15.  Modern, what is of most worth in, address on (Stubbs). 1901. p. 32.  Theory of higher, some recent changes in— 1899. (Bryan). p. 87.  1899. (Silvester). p. 94.  See also Agricultural education—Technical educatiox  Education, Commissioner of, correspondence with, relative to good roads. 1896.  Educational forces in U. S. relating to agriculture, cooperation of Department of Agriculture with (Willits). p. 65.  A7.3:23  A7.3:18  A1.1:887  A7.3:20  A1.1:888  A7.3:20  A2.9:3	report of (Riley). p. 167	A1.1:884
Calumet Plantation, sugar experiment station, Pattersonville, La., record of experiments at. 1889.  Sorghum analysis at Rio Grande, N. J. 1888. p. 20	Edmunds, J. M. Forests, paper on. 1869. p. 22.	A27.9:7
record of experiments at. 1889.  Sorghum analysis at Rio Grande, N. J. 1888. p. 20.  same, abstract. p. 250.  same, abstract. p. 71.  Sorghum sugar experiments at Douglass, Kans. p. 278.  same, p. 94.  Education:  Industrial classes (Andrew). 1864. No. 1. p. 15.  Modern, what is of most worth in, address on (Stubbs). 1901.  p. 32.  Theory of higher, some recent changes in—  1899. (Bryan). p. 87.  1899. (Silvester). p. 94.  See also Agricultural education—Technical educatiox  Education, Commissioner of, correspondence with, relative to good roads. 1896.  Educational forces in U. S. relating to agriculture, cooperation of Department of Agriculture with (Willits). p. 65.  A7.3:23  A7.3:18  A1.1:887  A1.1:888  A7.3:20  A27.9:3  A27.9:3  A10.3:65  A10.3:65  A10.3:65  A10.3:65  A10.3:65  A10.3:65	Calumet Plantation, sugar experiment station. Pattersonville, La.,	
same, abstract. p. 250 same, abstract. p. 71 Sorghum sugar experiments at Douglass, Kans. p. 278 same, p. 94 A1.1:887 A7.3:17 A7.3:17 A7.3:17 A7.3:17 A1.1:888 A7.3:20  Education: Industrial classes (Andrew). 1864. No. 1. p. 15 Modern, what is of most worth in, address on (Stubbs). 1901. p. 32 Theory of higher, some recent changes in— 1899. (Bryan). p. 87 1899. (Silvester). p. 94 1899. (Stubbs). p. 97 See also Agricultural education—Technical educatiox Education, Commissioner of, correspondence with, relative to good roads. 1896. Educational forces in U. S. relating to agriculture, cooperation of Department of Agriculture with (Willits). p. 65 A1.1:887 A7.3:17 A7.3:17 A1.1:888 A7.3:20	record of experiments at. 1889	A7.3:23
Same, abstract.: p. 71 Sorghum sugar experiments at Douglass, Kans. p. 278	Sorghum analysis at Rio Grande, N. J. 1888. p. 20	A7.3:18
Sorghum sugar experiments at Douglass, Kans. p. 278	same, abstract. p. 250	A1.1:887 A7 3:17
Education: Industrial classes (Andrew). 1864. No. 1. p. 15. Modern, what is of most worth in, address on (Stubbs). 1901. p. 32. Theory of higher, some recent changes in— 1899. (Bryan). p. 87. 1899. (Silvester). p. 94. 1899. (Stubbs). p. 97. See also Agricultural education—Technical education. Education, Commissioner of, correspondence with, relative to good roads. 1896. Educational forces in U. S. relating to agriculture, cooperation of Department of Agriculture with (Willits). p. 65.  A27.9:3  A27.9:3  A10.3:99  A10.3:65  A10.3:65  A10.3:65  A10.3:65  A10.3:65	Sorghum sugar experiments at Douglass, Kans. p. 278	A1.1:888
Industrial classes (Andrew). 1864. No. 1. p. 15	same, p. 94	l •
Modern, what is of most worth in, address on (Stubbs). 1901. p. 32  Theory of higher, some recent changes in— 1899. (Bryan). p. 87. 1899. (Silvester). p. 94. 1899. (Stubbs). p. 97  See also Agricultural education—Technical education.  Education, Commissioner of, correspondence with, relative to good roads. 1896.  Educational forces in U. S. relating to agriculture, cooperation of Department of Agriculture with (Willits). p. 65  A10.3:65  A10.3:65  A10.3:65  A10.3:65  A11.3:65		A 97 O.2
Theory of higher, some recent changes in—  1899. (Bryan). p. 87.  1899. (Silvester). p. 94.  1899. (Stubbs). p. 97  See also Agricultural education—Technical educatiox  Education, Commissioner of, correspondence with, relative to good roads. 1896.  Educational forces in U. S. relating to agriculture, cooperation of Department of Agriculture with (Willits). p. 65  A10.3:65	Modern, what is of most worth in, address on (Stubbs). 1901.	
1899. (Silvester). p. 94.  1899. (Silvester). p. 94.  1899. (Stubbs). p. 97.  See also Agricultural education—Technical educatiox  Education, Commissioner of, correspondence with, relative to good roads. 1896.  Educational forces in U. S. relating to agriculture, cooperation of Department of Agriculture with (Willits). p. 65.  A10.3:65  A10.3:65  A22.2:Ed8	p. 32	A10.3:99
1899. (Stubbs). p. 97  See also Agricultural education—Technical education.  Education, Commissioner of, correspondence with, relative to good roads. 1896.  Educational forces in U. S. relating to agriculture, cooperation of Department of Agriculture with (Willits). p. 65  A10.3:65  A22.2:Ed8	Theory of higher, some recent changes in—	A10.9.05
1899. (Stubbs). p. 97  See also Agricultural education—Technical education.  Education, Commissioner of, correspondence with, relative to good roads. 1896.  Educational forces in U. S. relating to agriculture, cooperation of Department of Agriculture with (Willits). p. 65  A10.3:65  A22.2:Ed8	1899. (Silvester). p. 94	A10.3:65
See also Agricultural education — Technical education  Education, Commissioner of, correspondence with, relative to good roads. 1896.  Educational forces in U. S. relating to agriculture, cooperation of Department of Agriculture with (Willits). p. 65	1899. (Stubbs). p. 97	A10.3:65
roads. 1896	See also Agricultural education — Technical education	1
Educational forces in U. S. relating to agriculture, cooperation of Department of Agriculture with (Willits). p. 65		A 99 9-Traig
Department of Agriculture with (Willits). p. 65		
Educational institutions. See Agricultural colleges, etc.	Department of Agriculture with (Willits). p. 65	A1.1:891
	Educational institutions. See Agricultural colleges, etc.	ı

•	CIESSINCALION NO
Edwards, Henry:	
Cryptophasa unipunctata, habits and earlier stages of, in Australia,	_
notes on. 1891. p. 384	A9.7:3
Lepidoptera, noises made by, notes on. 1889. p. 11	A9.7:2
Lepidopterous insect, beautiful exotic, birth of, in New York.	
1891. p. 316	A9.7:3
1891. p. 316 Edwards, Samuel. Timber on prairies. p. 495.	A1.1:862
Eells, M. Washington (State), dark day in. 1902. p. 440	A29.6:30
Egeriidæ. See Moths.	
Egg-laying record of plum curculio (Quaintance and Smith). 1902.	
p. 105	A9.6:37
Egg parasite of Vanessa antiopa, oviposition of (Weed). 1900. p. 32.	A9.6:26
Eggplant, bacterial disease of (Smith). 1896	A28.3:12
Eggs:	4 4 4 000
Bristol trade in. p. 335	A4.1:899
California, 100d value of (Jana). p. 510	A4.1:898
Cost and value of, of different breeds of hens (Emery). p. 476	A4.1:899
Denmark, industry. p. 608	A4.1:901
Digestibility of (Snyder). 1897. p. 20	A10.3:43
Enumeration of, 1880–90. p. 113	A21.9:32
Flower of relation of food to (Language by) 1900 m 25	A4.1:099
Flavor of, relation of feed to (Langworthy). 1900. p. 25	A4.1:899
Foreign markets for. p. 321	A4.1:000
1902	A 5 4 . 27
Great Britain (Halstead). p. 508.	A4 1:000
Hamburg trade in (Achby) n 345	A 4 1 · <b>QQQ</b>
Hamburg, trade in (Ashby). p. 345. Individual records of, nest box for keeping (Langworthy). 1900.	A4.1.000
p. 19.	A1.9:114
Industry, condition of (Dodge). p. 305.	A4 1.891_2
Madeira, exports of (Jones). p. 520	
Paris market for (Ashby). p. 336	A4.1:899
Preserving, in water glass (Beal). 1899. p. 17	A1.9:103
Production of—	
experiments in (Dryden). p. 506	A4.1:898
report on. 1899. p. 609.	A4.1:901
Raising, for market. p. 345	A1.1:862
Russian exports of (Holloway). p. 512	A4.1:900
Sales of, in Paris, 1896 (Scelle). p. 339	A4.1:899
Selling, by weight (Langworthy). 1900. p. 24	A1.9:122
Spain. p. 609	A4.1:901
Trial shipments of, to England (Alvord). p. 321	A4.1:899
Use of, as medium for cultivation of bacillus tuberculosis (Dorset).	
p. 574	A4.1:901
Weights of, of different breeds of chickens (Emery). p. 474	
Eggs and their uses as food (Langworthy)	A1.9:128
Egleston, Nathaniel H.:	A 1 0.EC
Arbor day; its history and observance. 1896	A1.8:56
Forest experiment stations in connection with agricultural colleges. 1885. p. 153	A1.7:9
Forestry, report on, v. 4. 1884	A1.7.9
Railroads, connection of, with forest fires. p. 128	A13.3:1
Timber lands, Government, value and management of. 1884.	77.0.0.1
p. 11	A1.7:5
Timber or forests, preservation of, on public domain, legislation	111.7.0
for. 1888. p. 212.	A13.3:2
See also, for reports as Chief, Forestry Division, Agriculture	
Department, 1883-85.	
Egypt:	
Agriculture in, note on. 1888. p. 359	A27.9:26
Crops in, 1888, note on. 1889. p. 267	A27.9:27
Seeds and plants collected in, by Barbour Lathrop and David G.	
Fairchild. 1900	
Egyptian cotton:	
Culture of (Foaden). 1897	A10.3:42
Exports of 1897	A 12.4:15
same (Hitchcock). 1897. p. 29	A 10.3:42

AMGCA	Classification no.
Egyptian cotton—Continued	
Letter on (Atkinson). 1866. p. 417	A27.9:1
Note on. 1867. p. 287	A27.9:5
Report of, in U.S. (Dewey). 1900.	
Egyptian strongyle (Strongylus subtiles), which may possibly occur	
in returning American troops (Stiles). 1902. p. 41	A4.3:35
Eimeria stiedæ, correct name for hepatic coccidia of rabbits (Stiles).	
p. 18. Eimeriella, new genus of coccidia (Stiles). 1902. p. 18.	A4.3:35
Eisen, Gustav:	A4.5:50
Blastophaga psenes, first introduction of, into California. 1891.	
n. 128	A9.7:4
Fig, its history, culture, and curing, with descriptive catalogue	
of known varieties. 1901	A 20.3:9
Figs, edible, their culture and curing. 1897. p. 5.	A20.3:5
Raisin grape, cultivation of, by irrigation. 1891. p. 225	A15.2:P941
Elasmus, habits of (Howard). 1892. p. 253	A9.7:4
Elderberry, leaf-tyer of (Chittenden). 1898. p. 82	A9.6:18
Eldridge, Maurice Owen:	A 1 0.100
Earth roads. 1902 Good roads for farmers.	A1.9:130
Highways of Europe and America. 1902. p. 19	A 99 9.99
Road building, progress of, in U. S. 1899. p. 367.	A1 10.899
Road improvement, legislation for. 1901. p. 679	A1.10:901
Roads, good country, construction of. 1898. p. 317	A1.10:898
Electric engineering in Utah, development of (Jensen). 1898. p. 91.	A10.3:49
Electric phenomena in Euphrates Valley, notes on (Abbe). 1900.	
p. 290	A29.6:28
Same (Huntington). 1900. p. 486.	A29.6:28
Electric signal apparatus, Weather Bureau station, Atlantic City,	A 00. 0.00
N. J. (Brand). 1898. p. 405.	A29.6:26
Electric street railways and macadam roads, relation between (North). 1902. p. 59	A22.3:22
Electric waves in atmosphere, notes on (Abbe). 1897. p. 352	A29.6:25
Electrical Congress, International, 1899, at Como, Italy, notes on	112010120
(Abbe), p. 419	A29.6:27
Electrical districts, notes on (Abbe). 1897. p. 249	A29.6:25
Same (Abbe). 1898. p. 562	A29.6:26
Electrical energy, climate as controlling factor in long-distance trans-	1.00 n of
mission of (McAdie). 1897. p. 439	A29.6:25
Electrical engineering laboratory in its relations to local engineering	A10.3:76
work (Cory). 1900. p. 99.  Electrical methods of soil testing. See Soils.	A10.3.70
Electrical recording instruments, storage battery for, use of (Vose).	
1899. p. 300	A29.6:27
Electricity:	
Local, in windstorm in Wyoming (Hunton). 1894. p. 509	A29.6:22
Static, in Weather Bureau work, importance of (Beals). 1896.	100 0 10
p. 39.	A29.3:18
See also Atmospheric electricity — Roentgen rays — and headings beginning Electrical.	
Electrodynamic radiations from sun, endeavor to discover (Trow-	
bridge). 1896. p. 409	A29.6:24
See also Atmospheric radiation.	
Electrolytes, aqueous solutions of certain, in equilibrium with atmos-	
pheric air, solubility of calcium carbonate in (Cameron and	
Seidell). 1901. p. 58	A26.3:18
Same, solubility of gypsum in (Cameron and Seidell). 1901.	400 0.10
p. 46. Eleventh Census. See Census.	A26.3:18
Eleventh Census. See Census. Eliot, John. Droughts and famines in India. 1895. p. 444	A 90 9-11 8
Ellenberger, Cyrus, short biography of (Abbe). 1900. p. 154	A29.6:28
Elliot. D. G. Game birds of U. S. p. 356	A1.1:864
Elliot, D. G. Game birds of U.S. p. 356	A1.9:40
Elliott, F. R.:	
Apple, pear, and grape, popular varieties of. p. 119	A1.1:863

	Classification no
Elliott, F. R.—Continued	•
Fruits, hardy, popular varieties of—	
1864. p. 141 1865. p. 186	A1.1:864
1865. p. 186	A1.1:865
1866. p. 131	
1867. p. 129 1875. p. 368	_
Elliott, Sterling. Address of, before National Road Conference, July.	A1.1:875
	A22.3:10
1894. p. 61 Elliott's "Sketch of Botany of South Carolina and Georgia," notes	1122.0.10
on grasses in (Scribner). 1901	A3.4:29
Ellis, Alston:	
Agricultural colleges, work of, some general considerations re-	
garding, 1899, p. 15	A10.3:65
Bachelor of science course, four-year, what studies should be	
embraced in? 1896. p. 47	A10.3:30
Ellis, G. H. Wood seasoning, experiments in. 1889. p. 57	A13.3:3
Ellis, J. B.:	A 00 E .77
Fungi, some new species of, descriptions of. 1891. p. 274	A28.0:7
Genus Scleroderma in Saccardo's Sylloge. 1889. p. 23	A20.0:0 A 99 5.5
Ellis, J. B., and Everhart, Benjamin M.:	A20.0:0
Fungi, new species of. 1891. p. 130	A 28 5.7
Hymenomycetous fungi, some new species of. 1889. pp. 24,68.	A28.5:5
Mucroporus Andersoni report on 1891 n 79	A 28 5 · 6
Mucronoporus E. and E., report on. 1889, p. 90	A28.5:5
North American fungi, new and rare species of. 1889. p. 145 Nummularia and hypoxylon, synopsis of North American spe-	A28.5:5
Nummularia and hypoxylon, synopsis of North American spe-	
cies of. 1889. p. 19. Uredineæ and ustilagineæ, new species of. 1891. p. 118.	A28.5:5
Uredineæ and ustilagineæ, new species of. 1891. p. 118	A28.5:6
Ellis, J. B., and Galloway, Beverly Thomas:	
Fungi—	A 00 E.A
new species of. 1891. p. 31	
new western. 1889. p. 65 Mucronoporus, new, report on. 1889. p. 141	A28.5:5
Ellis, J. B., and Halsted, Byron David. Fungi, new, report on.	A20.0.0
1891. p. 33	A28.5:6
Ellis, J. B., and Kellerman, W. A. Kansas fungi, new species of.	11201010
1889. p. 142	A28.5:5
Ellis, J. B., and Langlois, A. B. Louisiana fungi, new species of.	
1891. p. 35	A28.5:6
Ellis, J. B., and Tracy, Samuel Mills:	
Fungi, few new, report on. 1891. p. 76.	A28.5:6
Uredineæ, new species of. 1891. p. 43.	A28.5:7
Ellsworth, Henry L., 1790–1858, short biography of. p. 267	A27:9.9
Ellsworth, Luther T. Venezuelan cattle, shipments of, to Cuba. p. 516. Ellzey, M. G. Sheep husbandry south, paper on. 1883. p. 173	
Elm insect, newly imported (Howard). 1889. p. 34.	
Elm leaf-beetle:	
	A9.6:2
Albany, N. Y. (Lintner). 1895. p. 50	
p. 36	A9.6:6
Imported—	
circular relative to (Marlatt). 1895	A9.5:8
, habits and natural history and means of counteracting its	1000
injuries	A9.3:6
Washington, D. C. (Mariatt). 1895. p. 47	A9.6:2
Elmer, A. D., jr.:	4.90 g.20
Cloudbursts. 1902. p. 478  Meteorological extremes at Northfield, Mass. p. 251	A 20 R 9R
El Paso County. See Rio Grande region, Tex.	13.20.U.2U
El Paso Del Norte, Mexico. Grape culture and wine making in	
4 754	A27.9:11
(Pierson). 1873. p. 24. Elster, J., and Geitel, H. Atmospheric electricity, review of recent	<del>-</del>
investigations into subject of. 1895. p. 510	A29.3:11 <sup>2</sup>
Emery, E. H. Tornadoes at Cherry Hill, N. J., and Woodhaven,	
Long Island, N. Y., report of. 1895. p. 252	A29.6:23

	Classification no.
Emery, F. E.: Agricultural colleges, manual labor in. 1891. p. 106 Eggs—	A10.3:7
cost and value of, of different breeds of hens. p. 476	A4.1:899
feeding flavor into. p. 473	A4.1:899
weights of, of different breeds of chickens. p. 4/4	A4.1:899
Emery, H. D. Hogs and pork packing in West. p. 198 Emery, J. A. See, as joint author, De Schweinitz, Emil Alexander.	A1.1:803
Emery, S. C.:	
Meteorological records for reference and study, preserving, best	1.00 0.01
means of. 1902. p. 175 Mississippi tornado. 1902. p. 265	A29.3:31
Tornadoes in Tennessee, Mississippi, and Arkansas. 1900. p. 499.	A29.0:30
Emigrants, Florida as home for (Rollins). 1872. p. 495.	A 29.0:20 A 97 0.10
Emigration:	
English statistics. 1875. p. 112. Northern, to South, 1865. No. 6. p. 12.	A27.9:14
Northern, to South, 1865. No. 6. p. 12	A27.9:3
Emmer, a grain for semiarid regions (Carleton). 1901	A1.9:139
Emory fumigator, new method for handling hydrocyanic acid gas in	10000
orchards (Johnson). 1899. p. 43	A9.6:20
Employment agencies, free, for use of farmers, list of (West)	A27.4:13
Emulsion. See Kerosene emulsion. Encyrtid:	
New and remarkable, is it parasitic? (Howard). 1890. p. 145	A9 7:3
Six-branched antennæ, report on (Ashmead). 1891. p. 455	
Energy:	
Available, of food and body material (Atwater). 1901. p. 112.	A10.3:99
Conservation of, in human body, experiments on (Atwater and	A10.3:63
Rosa). 1899 Metabolism of, value of experiments on (Langworthy). 1898.	A 10.5.05
p. 1003.	A10.6:9
See also Metabolism.	
Engineer. See Agricultural Engineer.	
Engineering courses. Some objections to early differentiation of	
(Nagle). 1900. p. 106	A10.3:76
Engineering degree courses, four-year, what shall be the character of preparatory work required to enter? (Waller.) 1899. p. 75.	A 10 9.85
Engineering experiment stations, report of committee on, before	A10.5.00
convention of Association of American Agricultural Colleges	
and Experiment Stations—	
1896 (Aldrich). p. 116	
1898 (Murkland). p. 32	A10.3:65
1900 (Murkland). p. 40	A10.3:99
Engineering work, local, electric engineering laboratory in its rela-	A10.3:76
tions to (Cory). 1900. p. 99 England:	A10.5.70
Agricultural holdings act of 1875. p. 452	A27.9:13
Agricultural population of, changes in. 1875. p. 240	A27.9:13
Agricultural schools in, organization and management of (Welch).	
1885	A1.8:36
Breadstuff, imports of, Jan. and Feb. 1870 and 1871. p. 143	A27.9:9
Cereal crops of, 1868. p. 148.	A27.9:7
Cheese in, market for (Ashby). p. 214	A4.1:599 A97 0.4
Crops and prices, 1861–65. p. 210 same, 1870. p. 361	
Dairying of America and, their points of difference and compara-	1127.0.0
tive merits (Willard). p. 358	A1.1:866
Dog tax in. 1867. p. 381. Drought in. 1870. p. 434	A27.9:5
Drought in. 1870. p. 434	A27.9:8
Eggs to, trial shipments of. (Alvord). p. 321	A4.1:899
Emigration statistics. 1875. p. 112	A21.8:14 A97 0.0
Food of. 1866. p. 434	A27 Q.4
Grain measures of. 1863. No. 5, p. 9; No. 6, p. 22	A27.9:1
same. No. 1, p. 35	A27.9:2
same, No. 1, p. 35 Hop growing in. 1870. p. 486.	A27.9:8
Horse breeding in. 1875. p. 513	A27.9:13

Comments on fifth report of (Hamilton). 1891. p. 129......

Entomological discoveries and observations in West Virginia in 1894

A8.

A9.7:4

A9.7:7

Entomological Commission, Agriculture Department:

Entomological exhibition, 1865. See Paris.

<sup>\*</sup>By a misprint, this page number appears twice.

#### maex

	Classification no.
Entomological notes:	
Interesting (Townsend). 1891. p. 26	A9.7:4
Miscellaneous (Johnson). 1899. p. 62	A9.6:20
Problems and (Smith). 1895. p. 6	A9.0:2
Entomological record, monthly:	
1871. p. 332	A27.9:9
OctDec., 1871. (Glover)	A27.9:9
Jan., 1872	A27.9:10
Feb., 1872-Oct., 1875. (Glover)	A27.9:
Entomological work: Agricultural experiment stations (Cook). 1891. p. 212	AQ 7.3
same (Osborn). 1895. p. 85	A10.3:24
Central Park, New York City (Southwick). 1891. p. 59	A9.7:4
Economic, in parks of New York City (Southwick). 1894. p. 135.	A9.7:7
Mississippi (Weed). 1891. p. 34	A9.7:4
Oregon and California; notes on Australian importations (Koebele).	A9.3:32
1893. p. 33	A0.0.02
Entomologists, Economic, Association of:	
Objects of (Gillette). 1900. p. 5	A9.6:26
Proceedings of—	
1st annual meeting of, 1889. p. 177	A9.7:2
2d, 1890. p. 180	
4th, 1892. p. 67	
5th, 1893. p. 61	
6th, 1894. p. 55	A9.7:7
7th, 1895	
8th, 1896	
9th, 1897	
10th, 1898	
12th, 1900	
13th, 1901	A9.6:31
14th, 1902	A9.6:37
Entomologists:	
Government and State, and other contributors to literature of American economic entomology, more important writings	
of; A-K	A9.2:B472
same, L–Z	A9.2:B478
same, June 30, 1888-Dec. 30, 1896 (Banks)	
same, Dec. 31, 1896–Jan. 1, 1900 (Banks)	
Illustrations for (Garman). 1893. p. 109	
Official, meeting of, circular calling attention to. 1889	
Slip records for, note on (Cockerell). 1893. p. 198	
Station, committee on cooperation among, report of. 1894. p. 112.	
Work of, in experiment stations (Cook). 1891. p. 212	
same (Osborn). 1895. p. 85	A10.3:24
Entomology:	
Abstracts of reports of agricultural experiment stations on,	
1889-1902	A10.6:
American economic, bibliography of more important contribu- tions to	400 D.
Applied	A9.2:B47
Applied— general truths in (Riley). p. 323	A1 1-884
outlook of, address on (Riley). 1891. p. 181.	A9.7:3
parasitic and predaceous insects in (Riley). 1893. p. 130	A9.7:6
present and future of, in America (Webster). 1897. p.5	A9.6:9
Economic—	A O . 0.1
accessions, catalogue of, simple form of (Ball). 1902. p. 37 bibliography of writings of Alpheus Spring Packard on (Hen-	A9.6:31
shaw). 1887	A9.3:16
catalogue of exhibit at World's Columbian Exposition, Chica-	
go, 1893	A9.3:31

	CIMERINGRAION
Entomology—Continued	
Economic—Continued	
catalogue of exhibit of, at World's Industrial and Cotton Cen-	
tennial Exposition at New Orleans, 1884–85	A9.2:N42
dipterous parasites in their relation to (Townsend). 1893. p. 201	A9.7:6
duty of (Osborn). 1898. p.6	
evolution of (Fernald). 1896. p.5	A9.6:6
Florida, report on (Gossard). 1901. p. 178	A10.3:99
laboratory method of experimentation in (Woodworth). 1891.	
000	A9.7:3
p. 266 progress in, in U.S (Howard). 1899. p. 135.	A1.10:899
report of committee of Association of American Agricultural	
Colleges and Experiment Stations on progress in. 1891.	
p. 29	A10.5:3
work in, at University of Kansas for season of 1894 (Snow).	1110.0.0
p. 140	A9.7:7
Matters of international concern in, some recent (Riley). 1888.	A0.1.1
p. 126	A9.7:1
North American, list of works on (Banks). 1900	A0.7.1
Office and laboratory committee (Forber) 1990 - 195	
Office and laboratory organization (Forbes). 1889. p. 185	A9.7:2
Official economic, brief account of rise and present condition of	A O 77.77
(Howard). 1894. p. 55	A9.7:7
Practical, for farmers' sons. p. 305	A1.1:868
Relations to vegetable production of soil, with reference to both	
destructive and beneficial insects (Rathvon). p. 372	A1.1:862
Suggestions and notes on, presented to entomology section of	
Association of American Agricultural Colleges and Experi-	1
ment Stations, at 15th annual convention, 1901 (Slingerland).	
1902. p. 120.	A10.3:115
Southern States, report on (Garman). 1901. p. 153	A10.3:99
Teaching, report on (Cook). 1890. p. 107	A9.7:3
See also Insects - names of States - headings beginning "Ento-	
mological," "Entomologist," and "Entomology."	
Entomology Division, Agriculture Department:	<b>A9.</b>
Pacific coast work of (Henry). 1889. p. 141	A9.7:2
Practical work of, observations, etc	A9.3:
Some miscellaneous results of work of—	ł
[No. 1.] 1897	A9.6:7
[No. 2]. 1898	A9.6:10
No. 3. 1898	A9.6:18
No. 4. 1900	A9.6:22
No. 5. 1901	A9.6:30
No. 6. 1902	
Work of, for farmer (Howard). 1897. p. 84	A1.10:897
Entomology section, Association of American Agricultural Colleges	
and Experiment Stations, report of:	
1890. p. 144	A10.5:3
1891. p. 78	A10.3:7
1892. p. 41	A10.3:16
1894. p. 85.	A10.3:24
1895. pp. 17, 95	A10.3:30
1895. pp. 17, 95 1896. p. 107	A10.3:41
1897. pp. 16, 90	A10.3:49
1898. pp. 24, 133	A10.3:65
1899. pp. 44, 96	A10.3:76
1900. pp. 17, 153	A10.3:99
1901. pp. 21, 117	A10.3:115
Environment, influence of:	
Chemical composition of plants (Wiley). 1901. p. 299	A1.10:901
Plant varieties (Webber). 1896. p. 89	A1.1 :806
Enzootic cerebro-spinal meningitis. See Horses.	
Enzymes, or soluble ferments, of hog cholera germ (De Schweinitz).	
p. 266	A4.1:898
See also Catalase.	
Enzymic ferments upon starches of different kinds, action of (Stone).	1
1896	A10.3:34
Ephestia interpunctella, Zeller, notes upon (Patton). 1890. p. 158.	A9.7:3

	Classification no.
Epidemics, how do rains and winds spread? (Abbe). 1895. p. 295.	A29.6:23
Epizootic aphthæ of stock, nature, causes, treatment, etc. p. 352	A1.1:870
Epizootic catarrh, information relative to (Decroix). 1873. p. 180. Epizootics among swine (Watts). 1872. p. 214	A27.9:11
See also Ergotism.	A21.8.10
Equinoctial storm Sept., 1863. No. 4. p. 36	A27.9:1
Equinoctial storms, notes on (Abbe). 1900. p. 558	A29.6:28
Same (Kimball). 1901. p. 508	A29.6:29
Eragrostis obtusifiora, leaf structure of (Ogden). p. 12	A3.3:8
Erdman, Charles W. Silesian wool. p. 521	
Ergotism:	A20.0.0
Among cattle in Kansas (Trumbower). p. 310	A4.1:884
same (Trumbower). 1884. p. 89	A4.2:An5
same (Bird). p. 317	A4.1:895-6
Enzootics of, investigation of. 1884. p. 212	A1.1:884 A4.1:884
Erie, Lake:	A4.1.004
Influence of wind and rythmic gusts on level of (Abbe). 1900.	
110	A29.6:28
Oscillation, period of, note on (Harris). 1902. p. 312	
Wind velocity and fluctuations of water level on (Henry) Erni, Henri:	A29.5:J
Grape disease in Europe, origin, history, phenomena, and cure.	
p. 324	A1.1:865
Sorghum, analysis of. 1866. p. 336.	A27.9:4
See also, for reports as Chemist, Chemistry Bureau, Agriculture	A # 4
Department, 1863-65  Erosion due to heavy rains and steep grades, notes on (Abbe). 1900.	A7.1:
	A29.6:28
p. 544 Erwin, Tenn., cloud-burst at (Worth). 1898. p. 244	A29.6:28
Mysiphoc.	
Of Montana, preliminary list of (Anderson). 1889. p. 188	A28.5:5
Upon phytoptus distortions (Anderson and Kelsey). 1889. p. 209.	A28.5:5
Eschenhagen, M. Magnetic instruments, some improvements in. 1895. p. 539	A29.3:11 <sup>2</sup>
Esparto grass:	
Habits, nature, and uses. p. 260	A1.1:868
Information on (McChesney). 1869. p. 233	A27.9:7
Espy, James P., and Franklin Kite Club (Abbe). 1896. p. 334 Espy, James P., and Redfield period, 1830 to 1855, of meteorological	A29.6:24
advancement (Davis). 1895. p. 305	A29.3:11 <sup>2</sup>
Estabrook, John D. Address of before Minnesota good roads	
convention, Jan., 1894. p. 12.	A22.3:2
Estes, John M. Tobacco; instructions for its cultivation and curing.	A1.9:6 A29.6:27
Ether and atmosphere, note on (Abbe). 1899. p. 362	A28.0.27
p. 93	A7.3:28
Ethics, entomological report on (Cockerell). 1898. p. 87	A9.6:17
Eucalyptus:	A 10 0.05
Cultivated in U.S. (McClatchie). 1902	
Eucalyptus globulus:	A10.0.11
Description of. 1873. p. 244	A27.9:11
From a botanic, economic, and medical point of view, embracing	
its introduction, culture, and uses (Planchon). 1875	A1.8:9
Use of. 1873. p. 583.  Eumæus atala, notes on (Schwarz). 1888. p. 37.  Euphrates Valley, electric phenomena in (Huntington). 1900. p.	A27.9:11 A9.7:1
Euphrates Valley, electric phenomena in (Huntington). 1900. p.	110.1.12
286 Same (Abbe). 1900. p. 290	A29.6:28
	A29.6:28
Europe: Agricultural education in (McChagney) n 127	A1 1.989
Agricultural education in (McChesney). p. 127	A1.1:868
1897. p. 7	A10.4:32
1897. p. 7 Agricultural experiment stations in (Atwater). p. 517	A1.1:875
mame. pt. 2. p. 466	A27.9:14

Classification no.

Funna Continued	Classification
Europe—Continued	A1 1.077
Agricultural statistics. p. 577	A1.1:0//
Agriculture of, American competition with. 1883. No. 64. p. 31.	A27.8.11
American plows in. 1868. p. 286	A21.8.21
Animals in, contagious diseases among. 1897. p. 69	A4 1.897
same 1898 n 498	A4 1.898
same. 1898. p. 428 Beet sugar in (Gennert). p. 158	A1 1.888
Beet-sugar manufacture in, progress of. p. 334	A1.1:869
Cattle in—	111111000
	A27.9:8
diseases of. 1870. p. 435	A27.9:7
Cattle markets and abattoirs in (Alvord). p. 279	A4.1:901
Cattle plague, in 1865-66 (Dodge). p. 550	A1.1:865
same. 1870. p. 155	A27.9:8
Cereals in, consumption of. 1885. No. 16	A27.9:23
Condensed milk in. 1868. p. 39	<b>A27.9:6</b>
Cooperative credit associations in, and their relation to agricul-	
tural interests (Peters). 1892	A27.8:3
Crop prospects of (Moffat). 1883. No. 61, p. 34; No. 64, p. 28;	
No. 65, p. 29; No. 1, p. 18	A27.9:21
Farm animals of (Ryder). 1886. p. 353	A27.9:24
Farm products in—	100 105
cost of hauling. 1897	A22.4:27
domestic animals and. 1867. p. 256	A27.9:5
Farm stock of. 1866. p. 246	A27.9:4
Flor only me for good and flor in (Dodge) 1808	A27.9:0
Flax culture for seed and fiber in (Dodge). 1898	A11.0:10
same, 2d ed., p. 11	
Forest preservation in. 1875. p. 242.	
Fresh-meat shipments to. p. 312.	
same, p. 374	A1.1:877
Grape disease in; origin, history, phenomena, and cure (Erni).	121.1.011
p. 324	A1.1:865
Hemp culture in (Dodge), 1898	A11.5:11
Hessian fly, parasite from, importation of (Forbes). 1891. p. 179.	A9.7:4
Highways of (Eldridge). 1902. p. 19.	A22.3:23
Hop crops of. 1868. p. 409	A27.9:6
Horse-radish, best varieties of (Fairchild). 1900	A23.4:1
Insects, two beneficial, introduced into U. S. from (Howard).	
1898. p. 13	A9.6:17
Kites in, notes on (Abbe). 1897. p. 165	A29.6:25
Magnetic survey of (Tillo). 1895. p. 465	A29.3:11 <sup>2</sup>
Maize into, introduction of (Murphy). 1891. p. 5	
Meat consumption in. 1876. p. 498	A27.9:14
Meteorological phenomena in, Jan. and Feb., 1864 (Davy). No.	A 97 O.9
2. p. 94	A27.9:2
Pure-food laws of, affecting American exports (Bigelow). 1901	A7.3:61
Ramie in, manufacture of (Dodge). 1893. p. 12	A11 5.2
Rye production of. 1891. p. 338	A27.9:29
Silk production in. 1872. p. 52	A27.9:13
Stock diseases in. 1869. p. 65.	A27.9:7
Sugar production of, 1877-90. p. 208	A27.9:28
Transportation rates in. 1883. No. 56. p. 39	A27.9:21
Trichiniasis in, extent of (Salmon). p. 475	A4.1:884
same. 1884. p. 269	A4.2:An5
same. 1884. p. 269	A4.3:30
Weather correspondence in (Abbe). 1895. p. 56	A29.6:23
Western, prunes and prune culture in (Lake). 1901	A20.3:10
Wheat prospect of (Moffat). Apr., 1883. No. 58. p. 31	A27.9:21
European tree sparrow (Passer montanus), at Saint Louis, Mo.,	1
history of (Widmann). p. 191	A5.3:1
See also Sparrows.	•

<sup>\*</sup> By a misprint, this page number appears twice.

Index	Classification no.
Eurytominæ. See Grass and grain joint-worm flies. Eustis, Lake County, Fla., thunderstorms at (Abbe). 1897. p. 251	
Eustrotia caduca, preparatory stages of (Kellicott). 1891. p. 321. Evans, A. W. Liverworts from southern Patagonia, collected by	
U. S. S. "Albatross" in 1887-91, list of. 1892. p. 140 Evans, Edward A.:	A6.5:1
Freshets in James River, Va., 1893–96. p. 590	A29.6:28
1899. p. 250 Meteorological and other forms and reports: should they be sim-	A29.6:27
plified; are modifications desirable? 1902. p. 168 Evans, Frank L. See, for reports as Chief, Accounts and Disburse-	A29.3:31
ments Division, Agriculture Department, 1893–1902 Evans, Walter Harrison:	A2.
Agricultural experiment stations, collective exhibit of, at Paris Exposition, 1900. catalogue of. p. 633	A10.3:80
	A1.10:901
Agricultural outlook of coast region of Alaska. 1897. p. 553 Alaska, agriculture in. 1898. p. 4 Botanical survey in Alaska. 1898. p. 48	A1.10:897 A10.3:48 A10.3:62
Copper sulphate and germination; treatment of seed with copper sulphate to prevent attacks from fungi. 1896	
Cotton, botany of. 1896. p. 67.  New York City, [2d] international conference on plant breeding	A10.3:33
and hybridization, 1902, report on. 1902. p. 208.  Paris, international congresses of horticulture, viticulture, and	A10.6:14
agriculture. 1901. p. 205.  Weed destruction by means of chemicals. 1901. p. 19	A10.6:12 A1.9:124
Wild cherry leaves, poisoning by. p. 16. Evaporated apples, zinc in (Wiley). 1896.	A1.9:103 A7.3:48
Evaporation:  Experiments on Kings River, Calif. 1901. p. 323	A10.3:100
Fort Collins, Colorado (Abbe). 1897. p. 210.  Notes on (Abbe). 1895. p. 421.  Temperature and, notes on (Abbe). 1898. p. 213.	A 29.6:23
Underground, report on (Balch). 1901. p. 545	A29.6:29
Evergreen and other forest trees, causes of destruction of in northern New England and New York—	
[1st] report (Packard). p. 138same, p. 138	A1.1:883 A9.1:883
2d report, p. 374	A1.1:884 A1.1:885
same, additions to 3d report, p. 17 4th report, 1886. p. 20	A9.3:13
5th report, 1887.  Evening, character of, notes on (Abbe). 1898. p. 215	A29.6:26
Same (Connor). 1898. p. 306. Everhart, Benjamin M. See, as joint author, Ellis, J. B. Evotomys:	A28.0.20
Black Hills of South Dakota, description of new (Merriam). 1890. p. 119	A5.5:5
Colorado, description of new (Merriam). 1890. p. 23	
(Merriam). 1890. p. 25 Ewell, Ervin Edgar:	A5.5:4
Cocoa preparations, adulteration of. p. 933  Farm, every, an experiment station. 1897. p. 291	A7.3:13 <sup>7</sup> A1.10:897
Fats and oils, specific gravity of, at temperature of boiling water, determination of. 1901. p. 119  Fertilizing value of street sweepings. 1898	A7.3:62
Sugar, analysis of, recommendations on. 1895. p. 152	A7.3:47
Ewell, Ervin Edgar, Bigelow, Willard Dell, and Page, Logan Waller.	
Chemistry Bureau, Agriculture Department, exhibit of, at Pan-American Exposition, Buffalo, N. Y., 1901	A7.3:63

	Classification no
Exchange Bureau. See Information and exchange bureau.	,
Exchanges, foreign, system of, report on. p. 530	A1.1:868
Exotic collection. See Agriculture Department.	
Experiment, its conception and methods of procedure (Bolley).	<b>∆ 10 Q ⋅40</b>
1898. p. 47  Experiment station, every farm an (Ewell). 1897. p. 291	A1.10:897
Experiment station record, vols. 1–11	A10.6:
Experiment station record, vols. 1-11.  Experiment station work, nos. 1-20; a series of "brief popular bul-	
letins, compiled from published reports of agricultural experi-	
ment stations and kindred institutions in this and other	
countries," and assigned various numbers in the Farmers'	
Bulletin series. References to each article will be found	A 1 0
under their proper headings	A1.9:
Experiment stations. See Agricultural colleges and experiment	
stations—Agricultural experiment stations—Engineering ex-	
periment stations.	
Experiment Stations Office, Agriculture Department:	A10.
Irrigation investigations of, scope and purpose of (Mead). 1902.	
p. 417	A10.12:901
Library and publications of, circular regarding. 1889	
Nutrition investigations of, scope and results of. 1902. p. 437  Organization and first work of. 1889. p. 13	A10.1-:901
Publications of—	A10.5.1
circular regarding. n.d.	A10.4:16
list of, 1888–1899 (Harlow). 1900. p. 508	A10.3:80
Work of, for farmer (True). 1897. p. 135	<b>A</b> 1.10:897
Work of (True). 1895. p. 39	A10.3:24
Experimental farm, Agriculture Department, report of superintend-	A1.1:865
ent, 1865. p. 25	A1.1:000
work of, for farmers (Saunders). 1897. p. 180	A1.10:897
Experiments of Agriculture Department, protest against proposed	
legislation restricting. [With copy of Senate bill 1063.] May	
25, 1897	A1.2:Ex6 <sup>2</sup>
Explosive noises at Franklinville, N. Y. (Kales). 1897. p. 393	A29.6:25
Export trade in live stock and meat products, correspondence relating to (Rusk). 1893	A1.8:53
Exports:	11110.00
American, pure-food laws of European countries affecting (Bige-	
low). 1901	A7.3:61
Imports and. Jan., 1866. pp. 28, 86	A27.9:4
same, reports on, 1893–99.	
Provision, 1856–62. No. 5. p. 7.  See also Agricultural exports — Agricultural products.	A27.9:1
Exsiccati, new, report on (Fairchild), 1889, p. 160	A28.5:5
Extracts, flavoring, analysis of, provisional methods for (Mitchell).	
1902. p. 69	A7.3:65
Eycleshymer, A. C. Club root in United States. 1891. p. 79	A28.5:7
Eye: Discesses of of horses (Lew) n 247	A4.2:H78
Diseases of, of horses (Law). p. 247. Human, trematodes parasitic in (Monostomulum lentis and	111.2.1170
agamodistomum ophthalmobium) (Stiles). 1902. p. 24	A4.3:35
Eye and its appendages, diseases of, of cattle (Trumbower). p. 353.	A4.2:C29 <sup>2</sup>
Factories, refuse matter of, as fertilizers. 1867. p. 158	A27.9:5
Factory cheese and how it is made (Merry). 1896. p. 45	A4.3:15
Same, reprinted. n.d	A4.4:19
Fairbanks, George R. Florida freezes for century and half. 1895.	
p. 336.	A29.6:23
Fairchild, David Grandison:	
Berseem, the great forage and soiling crop of Nile Valley. 1902	
Bordeaux mixture as a fungicide. 1894	
Exsiccati, new, report on. 1889. p. 160.  Fungicides, experiments with, to prevent leaf-blight of nursery	A28.5:5
stock. 1891. p. 338	A28.5:7
stock. 1891. p. 338	A28.5:6
•	

index	Classification no.
Fairchild, David Grandison—Continued	
Hop culture in Bohemia. 1899.	A6.4:19
Horse-radish— best varieties of Europe, and methods of cultivation. 1900	A 99 A · 1
culture in Bohemia, circular on. 1899	A6.4:20
Leaf diseases of nursery stock in western New York, experiments	
in preventing. 1891. p. 240  Lebbek, or siris tree, circular on. 1900  North American mycological literature, index to. 1891. pp. 42,	A28.5:7
North American mycological literature index to 1891 up 42	A0.4:23
80, 128, 184.	A28.5:6
	A28.5:7
Plant introduction, systematic, its purposes and methods. 1898 Spanish almonds, and their introduction into America. 1902	A 13.3:21 A 10 2.96
Svalöf, Sweden, station for plant breeding at. 1901. p. 814	
Yams in West Indies, circular on. 1899.	A6.4:21
Znaim cucumbers, cultivation of. 1901	A23.4:2
See also, as joint author, Galloway, Beverly Thomas—Halsted, Byron David—Lathrop, Barbour—Swingle, Walter Ten-	
nyson.	
Fairchild, George Thompson:	
Agricultural education, evolution of, president's address to Association of American Agricultural Colleges and Experiment Stations	
at 11th annual convention, 1897. 1898. p. 32	A10.3:49
Colleges of agriculture, what should be taught in? 1896. p. 69	A10.3:41
Study, relation of technical to general course of. 1893. p. 67	A10.3:16
Fairfield, W. H. Water on Laramie Plains, Wyoming, duty of, 1899. 1902. p. 215	A10.3:104
Fairman, Charles E:	
Black spot of asparagus berries. 1889. p. 157.	A28.5:5
Fenestrate sporidia, development of some, observations on. 1891.	A28.5:6
Fungi, new or rare, from western New York, notes on. 1889.	1120.0.0
p. 78	A28.5:5
Fairs, Southern, agriculture representation at. 1869. p. 365 * Fake, N. J. See, as joint author, Crampton, C. A.	A27.9:7
Falconer, William:	
Mushroom beds, directions for preparation and spawning of. p. 17.	A18.5:1
Mushroom industry, review of. 1894. p. 20	A18.5:1 <sup>2</sup> A1.9:53
Falkner, J. M. Roads, good, duty of general government toward.	AI. 8.00
1902. p. 31	A22.3:23
Fall army worm. See Army worm.	A Q 0.11
Fallot, B. Copper in wines. 1890. p. 96  Famines and droughts in India (Eliot). 1895. p. 444	A29.3:11 <sup>2</sup>
Famines in India (Archibald). 1900. p. 246	A29.6:28
Farcy. See Glanders and farcy.	A1 1.075
Farina or potato-flour, report on (Macrae). p. 390	A1.1:878
p. 453	A1.10:897
Same, reprinted. 1898	A28.3:15
Farm: Birds, four common, of garden and (Judd). 1895. p. 405	A1 10:895
Birds on, value of (Samuels). p. 201	A1.1:867
British, increased production of. 1873. p. 488	A27.9:11
Butter making on (Goodrich). 1897. Cold storage on (Clark). 1900. p. 9	A1.9:57
European, decrease in size of. 1867. p. 101	A27.9:5
European, decrease in size of. 1867. p. 101  Every, an experiment station (Ewell). 1897. p. 291	A1.10:897
Exodus from the, what are causes of (Roberts). 1896. p. 80	A10.3:41
See also Davenport, E.  Experiment reports for popular use, preparation of. 1885.	
p. 93	A1.7:9
p. 93. Forests, relation to (Fernow). 1895. p. 333.	A1.10:895
Local taxation as affecting. 1897  Management of, in England. 1871. p. 474	A27.9:9
mindomona or medimina voisi bi vi s sessessessessesses	

<sup>\*</sup>By a misprint, this page number appears twice.

• • • • • • • • • • • • • • • • • • •	Classification
Farm—Continued Milk on, care of (Pearson). 1897	A1.9·63
Model, and agricultural colleges, letter on (McChesney). 1868.	
p. 460	A27.9:6
Pests of, in Australia. 1887. p. 535	A27.9:25
Poultry raising on (Salmon). 1901	A1.9:141
same. p. 235	A4.1:900
Prize, in Normandy. 1876. p. 117	A27.9:14
Pure water on, importance of. 1898. p. 3	M1.0.70
Roads, best for farming districts and (Stone) 1894. p. 501	
Roads, best for farming districts and (Stone) 1894. p. 501 Small, large profits from. 1873. p. 193	A1.10:894
Succulent forage for (Williams). 1899. p. 613	A1.10:899
Transportation on. 1901. p. 690	A1.10:901
Value of, and of mortgages on farms. 1896. p. 599	A1.10:896
Waste places on, tree planting in (Keffer). 1896. p. 323	A1.10:896
mental farm—Seed testing—headings beginning "Farm,"	
"Farmers." "Farming."	
Farm accounts, system of (Bourne). p. 502	A1.1:865
Australia, diseases of. 1887. p. 535	A27.9:25
Commercial movements of, 1875–86. p. 152	A27.9:25
Condition of—	10500
Jan., 1864. No. 1. p. 36	A27.9:2 A97 Q.9
Jan., 1865. No. 4. p. 22.	A27.9:3
1867. p. 132	A27.9:5
1868. p. 173	
1869. p. 85 1870. p. 121	
1871. p. 98	
1872. p. 112	A27.9:10
1876. p. 81 1878. No. 10. p. 6.	
1883	
Diseases of—	
1870. p. 125	
1871. p. 103	
1873. p. 153	
1874. p. 201	A27.9:12
1875. p. 161	
See also Diseases of animals.	A21.8.14
Europe (Ryder). 1886. p. 353	A27.9:24
Feeding of (Allen)	
Fences and laws relating to. p. 394	
General condition of. 1883. p. 302	$A4.2:An^{5}$
Molasses as a food for (Langworthy). 1899. p. 17	A1.9:107
Movement of. p. 207	A4.1:897
1859. No. 2. p. 18	A27.9:2
1866. p. 184	A27.9:4
1867. p. 111	
1870. p. 67	
1872. p. 51	A27.9:10
1880. No. 21	
1882. No. 42 1883. No. 56	
1884. No. 4	
1893. No. 101A	A27.9:31
1870–96. p. 253	A4.1:897

	Classification no.
Farm animals—Continued	
Numbers and values of—Continued	
1880–96 1897 and 1898. p. 597	A27.8:11
1897 and 1898. p. 997	A4.1:888
1899. p. 668 1900. p. 638	A4.1:000
Range or average price of, at Chicago—	11 2. 1.001
1897 and 1898. p. 579	A4.1:898
1899. p. 673	A4.1:899
1900. p. 569	
Receipts and shipment of, 1896–98. p. 550	A4.1:898
1895. p. 533	A1 10-895
1896. p. 559	A1.10:896
1897. p. 710	
1898. pp. 678, 702	
1899. p. 759	
1900. p. 824 1901. p. 771	
1901. p. 771	A1.10.501
Switzerland. 1866. p. 430.	A27.9:4
United States and Europe. 1866. p. 246	
Wintering. 1875. p. 84	A27.9:13
World. 1888. p. 28	
same. 1893. p. 54	A27.9:31
See also Animals, domestic.  Farm animals and their products. 1901. p. 771	A1 10.901
Farm buildings:	M1.10.001
Model report on p 283	A1.1:867
Practical suggestions for (Hill). 1901.	A1.9:126
See also Stave silo.	4.07.0.0
Farm capital. 1870. p. 42	A27.9:8
Farm crops. See Farm products. Farm drainage (Elliott). 1896	A1 0-40
Farm experiments, Agriculture Department:	MI.0.70
1867 (Farquhar). p. 187	A1.1:867
1868. p. 412	A1.1:868
1869. p. 267	A1.1:869
1870. p. 452	
1871. p. 238 1872. p. 454	
1873. p. 289	
1874. p. 255	
1875. p. 502	
Farm implements:	407.001
American and European. 1883. No. 56	A27.9:21
Improved (Todd). p. 225	A1.1.000
Course of prices of, for series of years (Holmes). 1901	A27.8:18
Report on (Thomas). p. 410	A1.1:862
Farm insects. See Insects.	
Farm labor:	A 07 0.0
Irish, wages of. 1870. p. 290	A21.8:8
1867. p. 4	A27.9:5
1870. p. 3	
1875. p. 261	A27.9:13
1882. No. 43	
1884. No. 4	
1885. No. 18	
1890. p. 200	
1840–92 (Dodge)	A27.8:4
1866-99, result of eleven statistical investigations	A27.8:22
Farm manure, report on (Hébert), 1895, p. 141	A10.6:5
Farm practice and fertilizers as insecticides (Smith). 1893. p. 93	A9.7:6

	. Index
	Classification no.
Farm prices: Cape Colony (Stowe). p. 523	A4.1:898
Market quotations and. 1893. p. 485	A27.9:31
same. 1894. p. 732	A27 9:32
Seventy years ago. 1891. p. 482.	A27. ':30 A 97 C :90
Farm products:	A21.8 28
Acreage, production, and value of, 1866 to 1895	A27.4:1
countries, reports of consuls on. 1897	A22.4:27
1894. p. 565	A1.10:894
1895. p. 566	A1.10:895
1896. p. 611	A1.10:896
Legal weights of, per bushel. 1891. p. 93	
Local exchanges of. 1875. p. 95	A27.9:13
Marketing (Hill). 1897	
Primary prices of. 1892. p. 299	A27.9:30
Shrinkage of. 1902. p. 10	A1.9:149
Yield and home prices of—	
1869. p. 14	
1870. p. 3	
1871. p. 4	A27.9:10
See also Agricultural products—Crops—Produce. Farm records, 1850-71. p. 68	A 97 0.10
Farm records, 1850-71. p. 08	A27.9:10
Farmers:	
Agricultural experiment station as educator of (Caldwell). 1882.	
р. 20.	A1.8:22
Better times for. 1891. p. 181	A27.9:29
Chicory growing as addition to resources of, in America (Kains).	
1898	A6.3:19
Closer intimacy between experiment stations and farmers' insti-	A10.3:120
tute as promoter of. 1902. p. 78.  Cotton seed to, value of (Beal). 1901. p. 24.	A1 Q·124
Daughters of, education of (Dodge). p. 441.	A1.1:866
Debts of. 1887. p. 78	A27.9:25
Employment agencies for use of, list of (West)	A27.4:13
Example for American Families of, health of (Hall). p. 453	A12.4:4
Families of, health of (Hall). p. 453	A1.1:862
Forestry for (Fernow). 1894. p. 461.	A1.10:894
same, with additional matter	A1.9:07 A27 Q.24
Gardens of (Brown). p. 337	A1.1:863
Good roads and how to get them, views on (Creasy). 1901. p. 78.	A22.3:21
Good roads for (Eldridge)	A1.9:95
Hawks and owls as related to (Fisher). 1894. p. 215	A1.10:894
Houses of, places and plans for (Hall). p. 313.	A1.1:863
How can agricultural experiment station reach and interest? (Roberts). 1889. p. 30.	A 10 5.1
Interest of—	A10.0.1
in finance. 1896	A27.4:3
in good seed (Pieters). 1900	A1.9:111
in good seed (Pieters). 1900.  Milling companies for. 1890. p. 294.  Money value of good roads to (Latta). 1896.	A27.9:28
Money value of good roads to (Latta). 1896	A22.4:23
Mutual interests and relations of Agriculture Department and, farmers' institute as medium for developing (True). 1902.	
p. 102 Of what service are statistics to the? (Hyde). 1898	A10.3:120
or what service are statistics to their (Hyde). 1898	A1.10:897 A27.8:14
same, reprint	A41.0114
cooperation of agricultural experiment stations with, in experi-	
ment work (Jenkins). 1895. p. 50.	A10.3:24
how may they hasten teaching of agriculture in public schools.	
1902. p. 89 Pioneer, in Alaska, suggestions to (Georgeson). 1902	A10.3:120
rioneer, in Alaska, suggestions to (Georgeson). 1902	A10.10:1

•	Classification no
Farmers—Continued	
Popular education for, in U.S. (True). 1897. p. 279	A1.10:897
Practical assistance to, in handling forest lands (Pinchot). 1898.	A13.4:21
Road question, views on (Bean). 1901. p. 67	A22.3:21
Sons of—	41 1.000
entomology for, practical. p. 305home life, training, and ambition of (Adams). p. 307	A1.1.000
Southern suggestions to 1899	A1.9:98
Southern, suggestions to. 1899.  Tax on, as produce brokers. 1870. p. 77	A27.9:8
Toad as a friend of. 1899. p. 28	I A1.9:87
Vegetable garden of. 1902. p. 6.	A1.9:149
Weather forecasting for (Reed). 1900. p. 287	A29.6:28
What meteorology is doing for (Harrington). 1894. p. 117	A1.10:894
Work of Agriculture Department for. See Names of divisions,	
bureaus, and offices in Agriculture Department.	
See also Agriculturist — English farms and farmers.  Farmers' Alliance, National, officers of. 1898. p. 627	A1 10-202
Farmers' bulletins:	A1.10.000
Available for distribution, list of	A21.2:F22
Distribution of, general orders relative to, 1895–97	A1.2:P96
List of	A1.9:
Farmers' clubs:	
List of—	
1870	
1872	
1876	
Notes on. 1871. p. 471 Report on (Nutting). p. 236.	A1.1:867
See also Agricultural societies and farmers' clubs — American Insti-	A1.1.007
tute Farmers' Club — West Newbury (Mass.) Farmers' Club.	
Farmers' Institute Workers, American Association of, proceedings of	
sixth annual meeting, held at Buffalo, N. Y., Sept. 18 and 19,	
1901; edited by A. C. True, D. J. Crosby, and G. C. Creelman.	
1902	A10.3:110
Same, 7th annual meeting	A10.3:120
Farmers' institutes:  Factor in creating desire for agricultural education. 1902. p. 68.	A10 3·120
History and status in U.S. and Canada (Bailey). 1900	A10.3:79
Illustration and demonstration work at (Curryer). 1902. p. 52.	
Lectures at, note on (Abbe). 1900. pp. 20, 67	A29.6:28
Local help in (Latta). 1902. p. 36.	
Managers or officials in charge—	
1898. p. 610	
1899. p. 687	A1.10:899
1900. p. 643	A1.10:901
Medium for developing mutual interests and relations of farmers	11.10.001
and Agriculture Department (True). 1902. p. 102	A10.3:120
Ontario (Creelman). 1902. p. 32.	A10.3:110
Promoter of closer intimacy between farmers and experiment sta-	
tions (Voorhees). 1902. p. 78	A10.3:120
Question box at (Amoss). 1902. p. 49	A10.3:110
Relation of— agricultural colleges and experiment stations to (Hutchin-	
gon) 1902 n 33	A10.3:110
son). 1902. p. 33 agricultural associations to (Dye). 1902. p. 44	A10.3:110
Agriculture Department to (True). 1902. p. 22	A10.3:110
to our industrial population (Hoard). 1902. p. 20	A10.3:110
Report of committee of Association of American Agricultural Col-	
leges and Experiment Stations on. 1898. p. 46	A10.3:49
Report on (True and Hall). 1897. p. 635	A10.6:7 A10.4:9
same, memorandum for. 1889  Work accomplished in Maryland, 1902 (Amoss). p. 25	A10.3:120
Work of, best method of publishing results of (Collingwood).	
1902. p. 39	A10.3:110
-	

	Classification no.
Farmers' institutes—Continued	CIMBRIE CHITOH MV.
Worker at—	
address on, before American Association of Farmers Institute	
Workers (Spillman). 1902. p. 59requisites of a good (Dawley). 1902. p. 42	
Young people attending, how to interest and instruct (Spencer).	
1902. p. 42	A10.3:110
See also Women's farm institutes. Farmers' National Congress, officers of:	I
1898. p. 627	A1.10:898
1899. p. 717	
1900. p. 671	A1.10:900
1901. p. 637	A1.10:901
Farmers' reading courses:	
Description of, with list of State officers. 1899. p. 717	A1.10:899
Scope and methods of (Bailey). 1899	
same, abridgment	W1.8:108
Aroostook County, Maine. 1869. p. 149	A 27 9.8
Association in, practical results of. p. 113	A27.9:12
High, as illustrated in history of Netherlands (Tilden). p. 527	A1.1:866
Influence of different systems of, on fertility of soil. 1899. p. 9.	A1.9:87
Modern, in America (Taveau). p. 280	A1.1:874
New England—	1
does it pay? p. 187	A1.1:874
report on. p. 255	A1.1:870
Northern and southern planting (watte). 1872. p. 207	A27.9:10
same. 1872. p. 359	A21.8.10
ing.	-
Farquhar, W. H. Farm experiments. p. 187.	A1.1:867
Fasciation, example of (Vasey). 1873. p. 171	A27.9:11
Famebender, Dr.:	
Cattle foods, work in, communications from foreign chemists	A7.3:43
taking part in. 1894. p. 170	A1.3:43
of methods employed. 1894. p. 25	A7.3:43
Faseig, Oliver Lanard:	111.0.10
Baltimore temperature curve for May, normal, marked rise in.	
1000 - 40	A 00 0.01
Barometric wave, daily, westward movement of. 1901. p. 495.	A29.6:29
same. 1902. p. 62	A29.6:31
Cloud photography, automatic, report of. 1896. p. 456.	A29.6:24
German Agricultural Experiment Stations, Association of, ninth annual convention of, 1896, report on. 1897. p. 447	A 10 6.9
Johns Hopkins University, meteorology at. 1898. p. 306	
Light precipitation, device for automatically recording beginning	
and ending of. 1902. p. 213	A29.3:31
Maryland climatological studies. 1902. p. 200.	A29.3:31
Meteorological Congress, held at Chicago, August 21-24, 1893,	
proceedings of. p. 227	A29.6:21
Meteorology, bibliography of American contributions to, note	A 00 0.11 f
concerning. 1895. p. 326 Waterspout at close range. 1902. p. 302	A29.3:11 *
Weather services, State, statistics of. 1895. p. 209	A 29.0:30 A 20 R-23
See also, as editor, report of International Meteorological Con-	1120.0.20
gress. Chicago, 1893	A29.3:11
Fat acids, soluble and insoluble, notes on methods for (Patrick).	
1888. p. 25	A7.3:19
<u> </u>	
Contained in tuberculosis bacilli (De Schweinitz and Dorset).	A4 1 · ROR
p. 301 Crystallization of (Crampton). 1889. p. 449	A7.3:13 4
Formation of, in animal body (Soskin). 1897. p. 179.	A10.6:8
See also Butter — Butter fat — Oils and fats.	
Fatty bodies in vegetable organisms, report on methods of estimation	
of (Maxwell). 1890. p. 94	A7.3:28
114 04 10 (200	

Index	Olympid anklay wa
Fauna. See North American fauna.	Classification no.
Faunæ, plant, notes on (Cockerell). 1892. p. 117	A9.7:5 A1.1:867
Faville, Geo. C.:  Maladie du coit, extirpation of, in Nebraska and South Dakota.	
p. 62. Nebraska, supposed maladie du coit among horses in. p. 359	A4.1:893-4 A4.1:891-2
Faville, Georgé C., and Day, Charles M. Maladie du coît in Ne- braska, second outbreak of. p. 134. Fayetteville, Ark., experiment station at, laboratory notes from.	A4.1:899
1890. p. 134  Featherstone, W. B. Meterological observations of San Francisco.	A7.3:24
1893-94. p. 128  February, weather condition for, statement of average (Garriott). p. 57	A29.6:22 A29.6:29
Federal meat inspection (Salmon). 1894. p. 67	A1.10:894
Feed, coarse, necessity of, to grow cattle (Davenport). p. 202 Feed mills and windmills. 1902. p. 31	A4.1:897 A1.9:149
Experiments in special points bearing on (Wing). 1891. p. 93  Farm animals (Allen). 1894	A10.5:3 A1.9:22
Leguminous plants for (Allen). 1894	A1.9:16
Value of cotton-seed products for (Kilgore). 1896. p. 385	A10.3:33
Feeding stuffs:	
Analyses of American, compilation of (Jenkins and Winton). 1892  Analysis of, official methods adopted by Belgian state labora-	A10.3:11
tories and agricultural experiment stations of Holland. 1899. p. 304 Chemical analysis, methods of, abstract of literature on. 1890–91.	A10.6:10
p. 61	A7.3:31
p. 61	
Composition of, for animals— 1894. p. 558	A1.10:894
1895. p. 560	A1.10:895
1896. p. 605 Condimental, use of in feeding animals. 1898. p. 25	A1.10:896 A1.9:73
Control of, needs and requirements of. 1897. p. 421	A1.10:897
Digestibility of— methods of determining (Kellner). 1898. p. 504	A10 6.9
report on (Jordan and Hall). 1900	A10.3:77
1894. p. 565	A1.10:894 A1.10:895
1896. p. 611	
Markets for American, extension of	A12.4:7
Nitrogen, free extract of (Tollens). 1897. p. 641  Pentaglucoses in, notes on occurrence and quantitative estimation of (Stone). 1890. p. 125	
See also Cattle foods — Foods and feeding stuffs. Fegan, M. E. See, for reports as Chief, Seed Division, Agriculture	A1.0.20
Department, 1893-95	<b>A24.1</b> :
Fehling's solution. See Sugar, estimation of. Felt, Ephraim Porter: Entomologic service, New York State, voluntary, in. 1899. p.	
39	A9.6:20
Forest and shade tree insects in New York State, observations on. 1901. p. 63.	A9.6:31
on. 1901. p. 63. Hessian fly in New York State in 1901. 1902. p. 22. Insecticides, early spring applications of, on fruit trees, some ef-	A9.6:31
fects of. 1900. p. 22	A9.6:26
1898. p. 16 1899. p. 60	A9.6:17
1899. p. 60 1902. p. 102	A9.6:20 A9.6:37

	Index Classification no.
Felt, Ephraim Porter—Continued	
Nursery-inspection laws and rulings, suggestions toward greater	A 10 0 00
uniformity in. 1901. p. 161	A10.3:99
	A9.6:31
p. 49 Pine trees, insects attacking, observations on certain. 1902.	•
p. 103	A9.6:37
San Jose scale, experimental work in New York State against.	40.007
1902. p. 35  Female life in open air (Doris). p. 430	A9.0:3/
Fances:	! !
Laws relating to farm animals and. p. 394	A1.1:869
Statistics of in U.S. D. 497	A1.1:8/1
Fenestrate sporidia, development of some, observations on (Fair-	
man). 1891. p. 29. Ferguson, James M. Cotton worm, letter on. 1867. p. 288	A28.0:0 A97 Q.5
Ferguson, Margaret C. Germination of spores of Agaricus cam-	120.0.0
pestris and other basidiomy cetous fungi, preliminary study of.	ı
1902	A19.3:16
Fergusson, S. P.:	
Kite experiments at Blue Hill meterological observatory. 1896.	A 20 R . 24
pp. 323, 327 same. 1897. p. 392	A29.6:25
Wire, early use of, in kite flying. 1897. p. 135	A29.6:25
Wire, early use of, in kite flying. 1897. p. 135	<u>.</u>
p. 263	A7.3:13 <sup>8</sup>
Fermented liquors. See Liquors.	
Fernald, Charles Henry: Brown-tail moth. 1898. p. 24.	A9 R-17
Entomology, economic, evolution of. 1896. p. 5	A9.6:6
Gypsy moth in Massachusetts, notes on. 1895. p. 59	A9.6:2
Pyralidæ from Death Valley, description of. 1894. p. 255	
Fernald, H. T. Insects in Massachusetts in 1901. 1902. p. 119	A10.3:115
Fernow, Bernhard Eduard: "Boxed" or "turpentine" timber, strength of	A13 4.8
Forest conditions of Rocky Mountains, introduction to reports	
on. 1888. p. 7	A13.3:2
Forest-fire legislation in U.S. 1896	
Forest fires, is protection against practicable? Forest influences, introduction and summary of conclusions to	A13.4:14
reports on. 1893. p. 9	A13.3:7
Forest resources, our, facts and figures regarding briefly stated.	
1896	A13.4:11
Forest supplies, consumption of, by railroads, and practicable	41004
economy in their use. 1890. p. 13	A13.3:4
1898. p. 7	A13.3:16
Forestry Division, Agriculture Department, work of, for farmer.	
1897. p. 143	A1.10:897
Forestry for farmers. 1894. p. 461	A1.10:894
same	A1.9:07
same. p. 297	A13.1:889
same, p. 297 Forests, relation of, to farms. 1895. p. 333	A1.10:895
same, p. 43  Forests, relation of, to water supplies. 1893. p. 123	A1.9:67
Forests, relation of, to water supplies. 1893. p. 123	A13.3:7
Government timber tests.  Lumbermen of U. S., suggestions to, in behalf of more rational	A15.4:7
forest management	A13.4:10
forest management  Mechanical tests on 32 species of American woods, summary of	A13.4:15
Railroad ties—	
annual charges for. 1887. p. 105	A13.3:1
metal. 1887. p. 108	A13.8:1
metal. 1887. p. 108 Rainfall and charts of rainfall. 1902. pp. 224, 225	A29.6:30
Sanitary significance of forests. 1893. p. 171	A13.3:7
	,

Index	Classification no.
Fernow, Bernhard Eduard—Continued Snow-slides and avalanches, their formation and prevention.	Crassincation 20.
1888. p. 236 Southern pine; mechanical and physical properties, results of in-	A13.3:2
vestigations of J. B. Johnson and Filibert Roth. 1896 Spikes, notes on adhesion of. 1887. p. 62	A13.4:12 A13.3:1
State forestry commissions and forest reserves, recent legislation on. 1897  Statement before Committee on Agriculture, Feb. 16, 1895	A13.4:17
Timber, increasing durability of. 1898	A13.4:20
p. 22	A1.7:5 A13.3:6
same, pt. 2, progress report, introduction. 1893. p. 1	<b>A13.3:6</b>
Trees, age of and time of blazing determined by annual rings.	
Turpentine gathering, effect of, on timber of pine	A13.4:16 A13.4:9 A13.3:5
What is forestry? 1891 Wood, characteristics and properties of, introduction to elementary discussion of. 1895. p. 5	A13.3:10
See also, for reports as Chief, Forestry Division, Agriculture Department, 1886–1897.	A13.1:
See also, as reviser, Spalding, V. M. Fernow, Bernhard Eduard, and Roth, Filibert. Wood, different kinds, how to distinguish. 1895. p. 59	A13.3:10
Ferns:	1110.0.10
Collected in Mexico by J. N. Rose during months of August and September, 1897 (Davenport). 1899. p. 146	A6.5:5
list of (Eaton). 1892. p. 138	A6.5:1
Ferrel, William, short biography of (Connor). 1898. p. 457	A29.6:28
paratus for combating. 1888. p. 87.  Fertility, Lawes's views of (Scott). 1883. p. 76.  Fertilization of soil as affecting orange in health and disease (Web-	A6.3:5 A1.7:2
ber). 1894. p. 193	A1.10:894
tion, with abstract of State laws for analysis and sale (Hyde).	A27.8:13
Fertilizers: Abstracts of reports of agricultural experiment stations on. 1889— 1902	A10.6:
Analysis, official methods of, adopted by Belgian State laboratories and agricultural experiment stations of Holland. 1899.	
p. 304	A10.6:10
of Economic Entomologists, 1890 (Smith). p. 217	A9.7:3 A9.7:6
Ashes as— are they economical at present prices? 1897. p. 24 supply of (Fleischmann). 1884. No. 9. p. 28	
Availability of. 1898. p. 5	A1.9:73 A27.9:8
Bones used as, new process for dissolving. 1866. p. 337	A27.9:4 A6.3:24
Chemical tables of. 1894. p. 571	A1.10:894 A27.9:6
Commercial— composition and use (Voorhees). 1896	A1.9:44
law on, in Connecticut. 1870. p. 151 sale of, uniformity in legislation with regard to (De Ghequier). 1885. p. 46	A27.9:8 A7.3:7
Complete, nitric nitrogen in, Ulsch method in determining (Street). 1892. p. 88	

	Classification r
Fertilizers—Continued	
Concentrated, in Southern States. p. 396 Containing cotton-seed meal, report on determination of available	A1.1:868
phosphoric acid in (Dancy). 1890. p. 161	A7.3:28
tion of (Shiver). 1891. p. 109	A7.3:31
tilizers and feeding capacities of plants (Atwater). 1882	A1.8:18
Cooperative field experiments with (Thorne). 1889	
Crop requirements (Beal). 1899. p. 5	A1.9:107
Determination of phosphoric acid and nitrogen in, in same weighed quantity of substance (De Roode). 1891. p. 104	
Effect of, on proportion of grain to straw or stover. 1897. p. 11. Effects of, and feeding capacities of plants, cooperative experi-	A1.9:56
menting as a means of studying (Atwater). 1882. p. 27	A1.8:22
Experiments with— for prevention and cure of peach yellows, 1889-92 (Smith)	A 98 2.4
on fruits and vegetables, to study variations of feeding capac-	,
ities of plants due to action of fertilizers. 1891 Fraud in—	A10.4:19
1870. p. 358	A27.9:8
1898. p. 5 Garden crops (Clark). 1898. p. 12	A1.9:105
Home-made. 1870. p. 358	A27.9:8
Home-mixed vs. factory-mixed. 1898. p. 5	A1.9:84
Home-mixed vs. factory-mixed. 1898. p. 5 Human excrement as, value of (Brown). 1872. p. 312	A27.9:10
Inspection laws— proposed reforms in (Wheeler and others)	A7.4·3
uniform, report of standing committee of American Agricul-	
tural Colleges and Experiment Stations on. 1900. p. 54.	A10.3:99
same. 1901. p. 27	A10.3:115
Mineral—	
new. 1870. p. 357	A27.9:8
note on (McMurtrie). 1873. p. 31	A 1 1.989
of Atlantic States. p. 367 of Mississippi Valley. p. 548	A1.1:000
Mixed—	
nitrogen in, availability of (Terne). 1893. p. 40	A7.3:38
same (Hayes). 1895. p. 112	A7.3.47
Mixing, as a matter of economy. 1897. p. 27	A1.9:65
Nitrification of certain, rate of (Withers and Fraps). 1901.	
p. 28	A7.3:62
report of committee on (French Association of Sugar Chemists).	
1887. p. 54	A7.3:16
report on (Davenport), 1898. p. 14	A7.3:56
Nitrogenous, for market-garden crops (Smith). 1901. p. 12	A1.9:124
Phosphates as. 1897. p. 12	A1.9:06
Phosphatic mineral. 1875. p. 62.  Phosphoric acid in, method of determining. 1886. p. 43	AZ1.9:14
Potash in, report on some sources of error in determination of	
(Scovell and others). 1896. p. 42.	A7.3:49
Refuse matter of factories as. 1867. p. 158	
bottled, loes of moisture in, when closed with cork (Battle).  1891. p. 159	A 7 0 01
preparation of—	A7.3:31
effect of finer grinding in (Battle). 1891. p. 160	
for analysis, notes on (Stillwell and Gladding). 1893.	A7.3:38
p. 19. Soil tests with, explanations and directions for. 1889	A10.4:8
Strawberry requirements. 1902. p. 17	A1.9:149

	Classification no
Fertilizers—Continued Use of—	
meeting of those interested in, circular relative to. 1889	A10.4:2 A1.9:69
Various formulæ for. 1872. pp. 76, 137, 218	A27.9:10 A1 8:31
See also Agricultural chemistry — Alfalfa — Ashes — Barnyard manure — Chemical analysis, methods of — Farm manure —	A1.0.01
Green manuring and manures—Guano—Humus—Lime—	
Limestone—Liquid manuring—Manures—Marls—Muck—	
Nitric nitrogen — Nitrogen — Potash.	
Fertilizing constituents of feeding stuffs and farm products:  1894. p. 565	A 1 10.894
1895. p. 566	A1.10:895
1896. p. 611	A1.10:896
Fertilizing value of:	A 1 O.EO
Barnyard manure. 1897. p. 24. Lime, different forms of (Beal). 1901. p. 12.	A1.9:50 A1 Q:1 <i>94</i>
Manure from cows. 1899. p. 5	A1.9:97
Manure from cows. 1899. p. 5.  Street sweepings (Ewell). 1898.  Fetlock, diseases of, of horses (Holcombe). p. 357.	A7.3:55
Fetlock, diseases of, of horses (Holcombe). p. 357	A4.2:H78
Fesler, John H. Rainfall of Amoy, China. 1897–1902. p. 486 Fiber:	A29.6:30
Classification of, structural and economic, with descriptive catalogue of useful fiber plants of the world (Dodge). 1897	A11.5:9
Crude, determination of— notes on (Fraps). 1901. p. 112.	A 7 3.62
preliminary investigations relating to (Huston and McBride).	111.0.02
1893. p. 135	A7.3:38
Culture or machinery, Agriculture Department circular of inquiry in regard to. 1890. p. 99	A27.8:1
same, 2d ed., p. 99.	A11.5:1
Determination of, in Scotland (Aitken). 1894. p. 172	A7.3:43
Estimation of, in substances rich in carbohydrates, report of	4 770 01
committee on. 1891. p. 63. Experiments, history of, etc. (Dodge). 1894	A7.3:31 A11.5:6
Flax culture for, in U. S. (Dodge). 1892.	A11.5:4
same, in U. S. (Dodge). 1895	A1.9:27
same, in Europe and America (Dodge). 1898	A11.5:10
Identification of (Seaman). 1897. p. 352  Ixtle, letter on (Murphy). 1869. p. 232	A11.5:9 A27.9:7
same. 1870. p. 354.	A27.9:8
Machinery and processes, list of patents for, Jan. 1875–Dec. 31, 1879. p. 609	A1.1:879
Pentosan-free crude, determination of (Fraps). 1902. p. 51	A7.3:67
Production in U. S., present status of (Dodge). 1892. p. 43same, 2d ed. p. 43	A27.8:1 A11.5:1
Vegetable, in collection of Agriculture Department at Philadel-	A11.5.1
phia Centennial Exhibition of 1876 (Dodge). p. 497	A1.1:879
See also Agaves — Flax — Hemp — Ixtle fiber — Leaf fibers of U.S. — New Zealand flax — Pentosan-free crude fiber — Pine-	
apple fiber — Textile fibers.	
Fiber Investigation Office, Agriculture Department: Work of, for farmer (Dodge). 1897. p. 224	A11. A1.10:897
Fiber plants:	•
Raising and testing of (Willits). 1890. p. 124.	A10.5:2
Useful, of the world, descriptive catalogue of (Dodge). 1897	A11.5:9 A1 1.984
Fibers, textile, of Pacific States (Flint). p. 471  Fibrine and bacteria (Taylor)	A18.2:F44
Field, John E.:	
Irrigation from Big Thompson river	A10.3:118
Water laws of Colorado. 1899. p. 39.  Field and garden, irrigation in (Wickson). 1901	
Field crops:	A1.0.100
Abstracts of reports of agricultural experiment stations on, 1889-	
1902	A10.6;

•	Index
	Classification no.
Field crops—Continued	A 1 10:001
Important data as to. 1901. p. 692	A1.8:20
Yield of, in European Russia. 1884. No. 9. p. 37	A27.9:22
Field cultures of Pacific slope, miscellaneous (Hilgard). p. 79 Field experimentation, plats in, form, size, arrangement, and treat-	A1.8:20
ment of (Latta). 1896. p. 83.  Field experiments, cooperative, report on (Ingersoll). 1891. p.	A10.3:30
109	A10.5:3
Same (Voorhees). 1901. p. 116.	A10.3:99
Field operations of Division of Soils (Whitney): 1899	A1.8:64
1900	A26.5:900
1901	A26.5:901
Field parties of Bureau of Soils, Agriculture Department, instructions to, and descriptions of soil types. 1902	A26.2:F45
Field seeds. See Seeds.	1
Fifty dairy rules. p. 201.	
Fig eater, or green June beetle, report on (Howard). 1898. p. 20 Figs:	A5.0.10
Cultivation of, and method of preparing for commerce. 1878	
Culture of. 1897  Edible, their culture and curing (Eisen). 1897. p. 5	A20.3:5 A20.3:5
Gulf States, culture of (Earle). 1897. p. 23	A20.3:5
History, culture, and curing, with descriptive catalogue of known	
varieties (Eisen). 1901	A20.3:9
n. 288	A20.3:9 A1.10:900
Smyrna, culture of, in U.S. (Howard). p. 79	A1.10:900
p. 317	A27.9:10
See also Australasia. Files. See Treasury Department. Filled cheese:	
Correspondence defining 1896	A4.4:16
Regulations for, notice of passage of bill for. 1896	A4.2:F48
Statistics of, 1886–99 (Pearson). p. 287	
Filter-tube method. See Hide-powder.	111.1.001
Filtration of cane juices and sirups, brown coal and wood char in	A1 1.007
(Thompson). p. 268	
Finance, farmers' interest in. 1896	A27.4:3
Financial transactions with U. S. Department of Agriculture, regula- lations governing. 1894	A2.2:F49
Finland, agricultural education and research in (Woll). 1898. pp. 605, 703	A10.6:9
Finley, John P. Certain climatic features of two Dakotas. 1893 Finney, J. R. Lunar halos. 1894. p. 76.	
Fippin, Elmer O., and Rice, Thomas D. Soil survey of Allegan County, Michigan. p. 93	
Fir. See white nr. Fireman, Peter. See, as abstractor, Morachevski, V.; as translator,	122000
Mokrzhetski, S. — Porchinski, I. — Sibirtzev, N. Fires:	
Disinfection of kennels, pens, and yards by (Stiles). 1902. p. 15.	
Drought and; in Northwest. 1871. p. 401	A27.9:9
Great, production of rain by, notes on (Abbe). 1896. p. 461  See also Forest fires—St. Elmo's fire.	A29.6:24
Fireworm. See Cranberry fireworm.	
Firmeza, Cuba. Rainfall at (Monroe). 1898. p. 252. Fiscal regulations of Agriculture Department	A29.6:26 A2.2:F52

Index	Classification as
Fish Dione Association	Classification no.
Fish, Pierre Augustine:  "Leeches," a disease of the horse in Florida, histological investigation of two cases of an equine mycosis, with historical account of supposed similar disease, called bursattee, occurring in	
India. p. 229	A4.1:895-6
India. p. 229  See also, as joint author, Moore, Veranus A. Fish, Stuyvesant. Address of, before Jefferson Memorial and Inter-	
state Good Roads Convention, Apr., 1902. p. 15	A22.3:25
Fish and Fisheries Commission report, 1871–72, review of. 1873. p. 185	: A97 0.11
185 Fish as food (Langworthy)	A1.9:85
Fish-culture: Directory of departments, boards, societies, colleges, and other	
organizations, in interest of. 1885	<b>A</b> 1.8:39
organizations, in interest of. 1885 Improvements and increase in (Green). p. 248	A1.1:872
Letter on (Woodford). 1869. p. 376 *	<b>A27.9:7</b>
Progress in, recent. p. 319	A1.1:868
Report on (Roosevelt). 1873. p. 183	A27.9:11
Fishes:	I
Collected by Death Valley Expedition in southern California and Nevada, in 1891, report on, with descriptions of new species	1 4 7 7 7
(Gilbert). 1893. p. 229	A 1 1.970
Food, of Alaska. p. 375 Small, rain of, note on (Abbe). 1901. p. 263	A1.1:070 A20 6:20
Fisher, A. K.:	A20.U.20
Birds, poisoning, experiments in. p. 423	A1.1:887
same, p. 423	A5.1:887
Blackbirds and gophers, depredations of, in northern Iowa and	
southern Minnesota in fall of 1887. p. 454	
same, p. 454	<b>A5.1:887</b>
Death Valley Expedition of 1891, ornithology of, comprising notes on birds observed in southern California, southern Nevada,	
and parts of Arizona and Utah. 1893. p. 7	A5.5:7
as related to the farmer. p. 215	A1.10:894
food of. p. 402	A1.1:887
relation to agriculture in U.S. 1893	A5.1:887
Marsh hawk, report on. p. 370	
same, p. 370	A5.1:889
common screech, report on. p. 372	A1.1:889
<b>sa</b> me, p. 372	A5.1:889
short-eared, special report on. p. 496	A1.1:888
same, p. 496	A5.1:888
Sparrow, destruction of, by poisons. 1889. p. 174	A5.3:1
Sparrow hawk, special report on. p. 491	Al.1:888
same, p. 491 Woodcock and wood duck, two vanishing game birds. 1901. p.	
Fisher, D. Tornado, March 20, 1895, at Augusta, Ga. p. 92	A1.10:901 A29.6:23
Fisher, E. M. Hoffmanseggia, North American species of, revision	
of. 1892. p. 143.  Fisher, George, kite used in 1822 by, note on (Abbe). 1897. p.	A00.0:1
Fiske, William F. See, as joint author, Weed, Clarence Moores—Scott, W. M.	A29.6:25
Fitch, William R. Hides, injury to, by branding. p. 509	A4.1:899
Fitch, William R. Hides, injury to, by branding. p. 509.  Flad, Henry, Wood preservation. 1887. p. 66  same, reprint. p. 257.  Flagg, William J. See, as joint author, Wilder, Marshall P.	A13.3:1
same, reprint. p. 257	A13.3:9
Flagg, William J. See, as joint author, Wilder, Marshall P.	A 90 @ 90
Flagstaff, Ariz., ice cave at (Renoe). 1901. p. 54.  Flammarion, Camille. Juvisy, observatory of, physical and meteor-	A29.6:29
ological researches, principally on solar rays, made at station	
of agricultural climatology at. 1899. pp. 103, 203	

	Classification no.
Flat pea, circular relative to (Scribner). 1895	A6.4:4
Same (Scribner). 1899	A3.4:1
Flavoring extracts, analysis of, provisional methods for (Mitchell).	A10.3:20
1902. p. 69	A7.3:65
Appropriation for, 1866, note on. p. 285	A27.9:4
Flax-cotton and, special report on. p. 113	A1.1:862
Hemp and, Russia. 1869. p. 237	A27.9:7
Premium crop of. 1870. p. 85	A27.9:0 A27.9:95
Rotation of. 1875. p. 517.	A27.9:13
Value of, as a farm product. p. 102	A1.1:863
See also Flax culture.	
Flax and Hemp Commission, report of (Moorhead and others). 1865.	A1.2:F76
Flax-cotton: Adaptation to cotton machinery (Jackson). p. 405	A1 1-869
Flax and, special report on. p. 113	A1.1:862
Flax culture:	
Austro-Hungary (Hawes). 1892. p. 55	A11.5:4
Belgium (Wallace). 1892. p. 47	A11.5:4
Europe (Dodge). 1892. p. 11	AZ1.8:1
same. 2d ed. p. 11	A11.5.4
same in U.S. (Dodge), 1895	A1.9:27
same, in Europe and America (Dodge). 1898 Instructions in (Fryer). p. 92	A11.5:10
Instructions in (Fryer). p. 92	A1.1:864
Ireland— .	4 07 O.9
1851-65. No. 7. p. 28	A27.9:3 A 97 Q:1
1851–71. p. 332	A27.9.1 A27.9:9
1892. (Wallace)	A11.5:4
Northwest, investigation of, in 1891 (Bosse). 1892. p. 40	A11.5:4
Present status of, in U. S. (Dodge). 1897. p. 471	A1.10:897
Report on, in U. S. (Dodge). 1892. p. 43.	A27.8:1
same. 2d ed. p. 43 Russia. 1892. p. 75	A11.0:1 A11.5:4
Statistics of, in U. S., for 1889, extracted from 11th Census bulle-	
tin no. 177. "Flax and hemp." by John Hyde. 1892. p. 83.	A11.5:4
Success of, of U. S. 1898. p. 5 Wisconsin and Minnesota (Bosse). 1892. p. 43	A1.9:69
Wisconsin and Minnesota (Bosse). 1892. p. 43	A11.5:4
Flaxseed. See Crops, principal. Flea-beetle living on purslane (Chittenden). 1898. p. 83	AO 6:19
See also Horse-radish flea-beetle—Red-legged flea-beetle—Tobac-	Aa.0.10
co flea-beetle.	
Fleas, report on (Howard). 1896. p. 9	A9.6:4
See also Hen fleas — Mosquitoes and fleas.	
Fleece. See Goat.	
Fleischmann, Charles L.: Ashes, supply of, for agricultural purposes. 1884. No. 9. p. 28.	A27.9:22
[Erroneously printed "Fleischman."]	112110111
Plows and plowing. 1883. No. 64. p. 64.	A27.9:21
Fleischmann method. See Van Slyke, L. L.	
Fleming, George. Bovines, contagious pleuro-pneumonia and infec-	
tious bronco-pneumonia. p. 87	A1.1:891
Flesh bases, separation of proteid bodies from, by means of chlorin	A4.1:091-2
and bromin (Wiley). 1898. p. 27	A7.3:54
Fletcher, James:	
Address of as president of Association of Economic Entomolo-	
gists, at 3d annual meeting. 1891. p. 4	A9.7:4
gists, at 3d annual meeting. 1891. p. 4  Canada, insects in, notes on. 1900. p. 94  Chionobas (oeneis) Macounii, preliminary notes upon. 1889.	A9.0:20
p. 45	A9.7:2
p. 45. Insects, injurious, of year in Canada, notes upon. 1891. p. 247.	A9.7:3
same. 1892. p. 124	A9.7:5

Index	Classification no.
Flies:	A O
Carriage of disease by (Howard). p. 39	
See also Aleyrodes citri — Bee-like fly — Bot-fly — Corn syphus-	111.0.100
fly — Cyrtoneura cæsia — Diptera — Dogwood saw-fly — Gad	
flies — Gall-fly — Grass and grain joint-worm flies — Grass	
saw-flies — Hessian fly — Hippelates — Horn fly — House	
flies—Lestophonus—Man-infecting bot — Ortalid fly — Osci-	
nidæ — Ox bot — Ox warble — Peach pest in Bermuda — Phy- tomyza affinis — Rose saw-flies — Saw-fly — Strawberry saw-	
fly — Syphus-fly — Tabanidæ — Tachinidæ — Tulip tree leaf	
gall-fly — Violet pest — White-fly — Willow-shoot saw-fly.	
Flint, Charles L. Hundred years progress in agriculture. p. 274 Flint, Daniel. Hop culture in California. 1900	A1.1:872
	A1.9:115
Flint, Earl: Meteorological observations at Rivas, Nicaragua. 1899. pp. 11,	
97, 153, 193, 249, 299, 360, 462, 509, 546	A 29.6:27
Nicaragua, central and western, rainfall in. 1899. p. 587	A29.6:27
Rainfall at Rivas, Nicaragua. 1880–98. p. 304	A29.6:26
Short biography of (Henry). 1901. p. 67	A29.6:29
Flint, Wilson:	A 1 1 .000
Grape culture in U. S. p. 147  Textile fibers of Pacific States. p. 471	A 1.1:803 A 1.1:864
Flood planes of Mississippi River (Ockerson). 1894. p. 81	A 29.3:11 <sup>1</sup>
Flood service:	1120.0.11
Note on (Hyatt). 1899. p. 50.	A29.3:24
same (Pindell). 1899. p. 51	A29.3:24
River and	A29.14:
Floods: Basseterre, St. Kitts, W. I., Jan., 1880 (Alexander). p. 196	A29.6:27
Brazos River Valley, Tex., 1899, with notes on previous overflows	A28.0.21
(Cline). p. 295	A29.6:27
(Cline). p. 295 same, 1900, with report of freshets in other streams. p.	
198	A29.6:28
Colorado Valley, Texas, April 7 to 17, 1900, and other floods	100 000
during same period, special report on (Cline). p. 146	
Columbia River, 1894. (Abbe). p. 510	A29.6:22 A29.6:22
Flood problems and, of Mississippi River (Frankenfield). 1899.	1120.0.22
	A29.6:27
p. 405 Flood warnings and (Frankenfield). 1901. p. 477	A1.10:901
Forecasting, methods in use in France (Babinet). 1894. p. 94	A29.3:11 <sup>1</sup>
Mississippi River— report on (Morrill). 1897	A29.5:E
same, p. 371	A29.1:897
with reference to inundation of alluvial valley (Starling).	1120.1.004
1894. p. 68	A29.3:11 <sup>1</sup>
Nile, and Indian monsoons, notes on (Abbe). 1900. pp. 252, 324.	A29.6:28
Of year, report on (Garriott). 1899. p. 208.	A1.1:898
same, p. 27.  Predicting, in water courses, best means of finding rules for (Bab-	A29.1:898
inet). 1894. p. 142	A29.3:11 <sup>1</sup>
River—	
notes on (Abbe), 1897, p. 209	A29.6:25
rate of advance of (Abbe). 1895. p. 341	A29.6:23
Warnings of, for benefit of transportation companies (Smith).	4.00.0.04
1899. p. 37. same (Outram). 1899. p. 38.	A29.3:24 A29.3:24
See also Nile floods — River and flood service.	ARMU, U.MT
Flora:	_
Arborescent, of U.S., nomenclature of (Sudworth). 1897	A13.3.14
Bacterial, of foremilk, relation of cheese-curd inflation to (Bolley).	410.0.00
1896. p. 78	A10.3:30
Climate and notes on (Abba) 1000 - 448	A6.5:3 A29.6:28
Climate and, notes on (Abbe). 1900. p. 448. Desert, North American, between 32° and 42° north latitude	4120.U.20
(Parry). 1871. p. 23.	A27.9:9
	,

	Classification no
Flora—Continued.	
Forest—	11000
of Rocky Mountain region (Sudworth). 1888. p. 153 additions to, of North America, and necessary changes in nomenclature of important timber species (Sudworth).	A13.3:2
p. 325	A1.1:892
same, p. 325	A13.1:892
Japan. 1875. p. 178	A27.9:13
Kansas, southwestern, collection of plants made by C. H. Thomp-	
son in 1893, report on (Hitchcock). 1896. p. 537	
Nebraska sand hills (Rydberg). 1895. p. 133.	A6.5:3
Florence, Italy, Congress on parasitic diseases of the vine, Oct., 1886, results of. 1886. p. 119	A6.3:2
Florida:	A27.9:10
As home for emigrants (Rollins). 1872. p. 495	A27.8:10 A29.6:28
Cigar-leaf tobacco in, cultivation of (Floyd). 1899.	A1.8:62
Citrous fruits in, principal diseases of (Swingle and Webber). 1896.	A28.3:8
Climate and products of (Knapp). 1885. No. 19, p. 23	A27.9:23
Climate, soil, productions, and agricultural capabilities—	
1862. (Stickney). p. 59	
1871. p. 160	l .
1882. (Carse). p. 3.	A1.8:21
Climatology of, with regard to crops (Mitchell). 1902. p. 208	A29.3:31
Cold wave in. 1886. p. 23	
Economic entomology in (Gossard). 1901. p. 178.	A10.3.99
Farm resources and products of. 1868. p. 81	A27.9:6
Farmers' institute work accomplished in (Stockbridge). 1902.	
p. 17	A10.3:120
Freezes for century and half (Fairbanks). 1895. p. 336	A29.6:23
Freezes, two, of 1894-95 in, and what they teach (Webber).	411000
1895. p. 159	A1.10:895
Fruit protection in, notes on (Abbe). 1900. p. 16	A29.6:28 A20.3:1
Fruits of, description of (Atwood). p. 140	
Garden crop, insects injurious to (Ashmead). 1887. p. 9	A9.3:14
Hen flea in (Sarcopsylla gallinacea), occurrence of (Packard).	
1894. p. 23	A9.7:7
Hippelates plague in (Schwarz). 1895. p. 374	A9.7:7
Hogs of, common, crossing improved breeds of swine with (Fur-	4444
nas). 1895. Horses in, leeches among (Fish). p. 229	A4.4:4 A4.1:895–6
Insects in, observations and experimental work (Gossard). 1902.	A4.1.000 U
р. 129	A10.3:115
p. 129 Orange in, diseases of (Underwood). 1891. p. 27	A28.5:7
list of new (Holzinger). 1893. p. 288	
report on (Simpson). p. 389	A1.1:889
same, p. 389	A6.1:889 A22.3:21
Root-knot disease of peach, orange, and other plants in, due to	AZZ.O.ZI
work of anguillula (Neal). 1889.	A9.3:20
Scale insects of orange in, report on effects of cold upon (Voyle).	i I
1994 m 70	A9.3:4
Sisal hemp in, false (Dodge). 1892. p. 28.	A11.5:5
same, description of (Baker). 1892. p. 32	A11.5:5
Sisal hemp in, false (Dodge). 1892. p. 28.  same, description of (Baker). 1892. p. 32.  Sisal hemp plant in (Dodge). 1891. p. 9.  same, investigations, 1893. (Dodge). p. 11.	М11.0:3   М11 Б.Б
Soil, resources, and means of transportation (Foss). 1882. p. 93.	A1.8·21
Soils and products of (Saunders). 1883	A1.6:62
Soils and products of (Saunders). 1883. Soils of, preliminary report on (Whitney). 1898.	A26.3:13
South, resources and productions of (Robins). 1889. p. 514	A27.9:27
Southern—	<b>]</b> I
hesperomys from, new species of, description of (Merriam).	
pineapple growing in, note on (Abbe). 1900. p. 253	A0.0:4
pineappie growing in, note on (Anne). 1800. p. 253	M28.0:28

ingex	Classification no.
Florida—Continued	
Swine plague in (McGehee). 1880. p. 94	A1.6:22 A6.3:18
See also Eustis—Jupiter—Key West—Pensacola. Florida beggar weed (Smith). 1899	A3.4:13 .
Florida clover. See Florida beggar weed.	A 4 1.009 04
Florida "horse-leech." p. 97  Florida land tortoise, insect guests of (Hubbard). 1894. p. 302  Flour:	A9.7:6
<u> </u>	A27.9:14
British imports, 1875–76. p. 486	A10.3:34
Imports of, into Great Britain. 1868. p. 39	A27.9:6
Manufacture of (Warder). p. 423 Minnesota, improved (Buck). p. 388	A1.1:862 A1.1:875
Prices of, in London. 1868. p. 38	A27.9:6
Prices of, in London. 1868. p. 38 Shipments of, from Chicago. 1838-63. No. 2, p. 33	A27.9:2
Tariff rates on, in European countries. 1894. p. 323	A27.9:32
Typical American composition of. 1897. p. 682	A1.10:897
Flour moth. See Mediterranean flour moth. Flowers:	
Cultivated, two dipterous insects injurious to (Coquillett). 1895.	
p. 399 Fertilization of (Bennett). 1873. p. 586.	A9.7:7
See also Begonia — Bulbs — Clematis — Oxeye daisy — Pear flowers — Pinks — Rose — Sunflowers — Violet — Wild flowers.	A27.9:11
Floyd, Marcus L.:	
Bulk fermentation of Connecticut tobacco	A26.4:5
Cigar-leaf tobacco, cultivation of, in Florida. 1899	A1.8:62
Tobacco experiments conducted in various parts of U. S., results	A1.10:900
of. p. 455	A26.5:900 <sup>1</sup>
See also, as joint author, Whitney, Milton. Fluke disease, frogs, toads, and carp as eradicators of (Stiles). p.	4.4.1.001
Fluke-worms. Trematodes (monotomulum lentis and agamodisto-	A4.1:901
mum ophthalmobium) parasitic in the human eye (Stiles).	A4.3:35
Flukes and tapeworms of cattle, sheep, and swine, with special ref-	A4.3:19
erence to inspection of meats (Stiles). 1898. p. 11	
hosts (Hassall). 1898. p. 137	A4.3:19
Same, bibliography (Hassall). 1898. p. 145	A4.3:19
Australia, trip to, to investigate natural enemies of fluted scale,	
report of (Koebele). 1890	A9.3:21
Australian hymenopterous parasite of (Riley). 1890. p. 248  Natural enemies of, report of a trip to Australia to investigate	A9.7:2
(Koebele). 1890	A9.3:21
See also Scale insects. Fly. See Flies.	
Fly weevil. See Angumois grain moth.	
Flynn, T. J., short biography of 1900, p. 324	A29.6:28
Foaden, George P. Egyptian cotton culture. 1897	
Corn, value of. 1871. p. 470.  Cow peas and corn for (Gettys). 1900.	A27.9:9
Fats in, determination of, by direct weighing and by loss of	AJ.T.24
weight of the substance (Snyder). 1891. p. 37	A7.3:31
weight of the substance (Snyder). 1891. p. 37	A3.3:2
Green corn, for milch cows. p. 291	A1.1:870
Green materials and, fat in, preliminary report on estimation of (Kilgore), 1897, p. 98	A7.3:51
(Kilgore). 1897. p. 98.  See also Alfalfa — Cattle foods and feeding stuffs — Corn fodder —	
Corn stover — Cornstalks — Hay — Straw — Stubble. Fodder plants and grasses on Potomac flats (Ball). 1900	A 2 A • 9 Q
Todaci hierre end Rispecs on Tomnier nam (Dail). 1900	AU. 7.40

~			•	40		
- 623	25	<b>6</b> 1	Mc.	8T.)	OB	no.

	Classification no.
Foëx, G. Grape-mildew, practical treatments for prevention of.	
1886. p. 113	A6.3:2
Fog:	
Formation of (Cuthbertson). 1902. p. 125.	A29.6:30
You Variable Dec 1905 (Abba) at 400	A29.0:00
New York harbor Dec., 1895 (Abbe). p. 463	A29.6:23
same, 1901 (Abbe). p. 175	A29.6:29
Tule, notes on (Abbe). 1899. p. 547	A29.6:27
Utilization of, note on (Abbe). 1898. p. 466.	A29.6:26
same (Abbe). 1899. p. 113	A29.6:27
same (Carpenter). 1899. p. 195	
same, report on (Hawks). 1899. p. 101	
Fog studies:	
Mount Tamalpais (McAdie). pp. 283, 492	A 90 6.98
same on $94$ $61$ $104$	A 20 G . 20
same, pp. 24, 61, 104	A29.6:29
Paper on, read before 2d convention of Weather Bureau officials	1.00 0.01
(McAdie). 1902. p. 31 Foggy days, records of (Abbe). 1897. p. 249	A29.3:31
Foggy days, records of (Abbe). 1897. p. 249.	A29.6:25
Foley, John. Hardwoods, southern, working plan for, and its re-	
sults. 1901. p. 471	A1.10:901
Foliage, comparative tests with new and old arsenicals on (Marlatt).	
1896. p. 30	A9.6:6
Folsetter, Wm. Glanders among horses and mules in Texas. p. 393.	A 4 1 · 889_90
Folsom, California. Locusts near, notes on (Koebele). 1885. p. 308.	A 1 1.005-50
Fonda Hanne Dand improvement 1000 - 41	A 00 0.00
Fonde, Henry. Road improvement. 1902. p. 41	AZZ.5:25
Food:	
Abstracts of reports of agricultural experiment stations on, 1889—	
1902	A10.6:
Adulteration of—	•
extent and character of (Wedderburn)—	
1890	A7.3:25
1892	
1894	
methods for determination of (Bigelow and Sweetser). 1897.	111.0.11
p. 117	A 7 9.51
same (Sweetser). 1898. p. 78	A7.0:01
same (Sweetser). 1888. p. 78	A7.5:00
See also Foods and food adulterants.	
Animals slaughtered for, necessity for inspecting (Salmon). 1889.	
p. 30 Available energy of (Atwater). 1901. p. 112	A7.3:25
Available energy of (Atwater). 1901. p. 112	A10.3:99
British, supply. 1871. p. 476.	A27.9:9
California eggs as, value of (Jaffa). p. 510	A4.1:898
Chemistry and economy of, methods and results of investigations	
on (Atwater). 1895.	A10.3:21
Coloring matter for, provisional methods for analysis of (Tolman).	111010121
1902. p. 111	A7.3:65
Consumption of, effect of severe and prolonged muscular work on	A7.0.00
(Atmotor and Charman) 1001	A 10, 9,00
(Atwater and Sherman). 1901	A10.536
Cooking of, suggestions regarding (Atkinson)	
Cutting and cooking, for animals (Stewart). p. 396	A1.1:865
Digestibility of, and metabolism of nitrogen, experiments on effect	
of muscular work upon, conducted at University of Cennes-	
see 1897–1899 (Wait). 1901	
same, 1899–1900 (Wait). 1902	A10.3:117
Dry vegetable, insects affecting (Chittenden). 1896. p. 112	A9.6:4
Examinations of, suggestions for better arrangement of (Dickoré).	
1893 p 162	A 7. 3:38
1893. p. 162 Fish as (Langworthy). 1898	A1 9.85
Functions and uses of (Langworthy). 1901	A 10 .1.1R
Hand and dood of Louis willing, 1001	1110.7.70 11 0.07
Hens' eggs as, value of. 1899. p. 24 Infant and invalid, analysis of, provisional method for (Wiley).	A1.0.01
1000 41	A P D AF
1902. p. 41.	A7.3:65
Influence of, on composition of butter (Von Lookren). 1890.	
p. 141	A7.3:24
p. 141 Maize as, value of (Wiley). p. 17	A1.8:49
Milk as. 1898	A1.9:74
Milk as. 1898 Mineral, of plants. 1870. p. 40	A27.9:8
Mushrooms as. 1898. p. 18	A1.9:79
	· · · · · · · ·

Index	Massidasilas na
Food—Continued	Classification no.
Nestling birds (Judd). 1900. p. 411.	A1.10:900
Nutrients, food economy and	A10.4:43
Nutrients of, heat equivalent of (Strohmann). 1896. p. 590	A10.6:6
Nutritive value and cost of (Atwater). 1894  Nutritive value of (Atwater). 1902.	A1.9:23
Nuts as (Langworthy). 1900. p. 18	A1.9:122
Potatoes as—	
for man. 1898. p. 11 value of (Langworthy). 1900. p. 337.	A1.9:84
Preservation of (Loomis). p. 470	A1.10:900
Pure—	A1.1.002
laws of European countries affecting American exports.	
(Bigelow). 1901 working of law regarding (Beal). 1900. p. 23.	A7.3:61
Soy beans as, for man (Langworthy). p. 20	A1.9:122 A1 9:58
State and other laws relating to beverages and. 1892. p. 87	A7.3:32
Sugar as (Abel). 1899	
See also Beef — Bread — Cattle foods — Cereals — Cheese —	
Chemical analysis, methods of — Cooking — Eggs — Filled cheese — Fish — Fishes— Hams — Honey — Human foods —	
Infant and invalid foods—Insect food of crow—Jerked beef—	
Liquor and food adulteration — Macaroni — Meat — Metab-	
olism — Mushrooms — Mutton — Nutrients — Nutrition in-	1
vestigations—Nuts—Oleomargarine—Oleomargarine cheese— Plant food — Preserved meats — Semolina — Sugar.	
Food and diet (Atwater). 1894. p. 357	A1.10:894
Food and diet charts	A10.7:
Food and nutrition investigations in New Jersey in 1895 and 1896 (Voorhees)	A10.3:35
(Voorhees) Food and nutrition of man, list of publications on.	A10.2:F73
Food legislation, report on, to Association of Official Agricultural	
Chemists. 1897. p. 105.  Food laboratories, suggestions for establishment of, in connection	A7.3:51
with agricultural experiment stations of U. S. (Atkinson).	
1893	A10.3:17
Food materials: American, chemical composition of (Atwater and Woods). 1896.	A10.3:28 <sup>1</sup>
same, revised edition (Atwater and Bryant). 1899	A10.3:28 <sup>2</sup>
Chinese vegetable, their nutritive and economic value, description	
of (Blasdale). 1899	A10.3:68
Food preservatives:	A1.5:04
Analysis of, provisional method for (Allen), 1902, p. 107,	A7.3:65
Commercial, composition of. 1900. p. 743	A1.10:900
Use and abuse of (Bigelow). 1900. p. 551	A1.10:900
From diseased animals (Salmon). p. 250	A4.1:901
North American Indians. p. 404	
Temperatures injurious to, in storage and during transportation (Williams)	A29.3:13
same, during transportation (Harrington). 1894	A29.3:15 A29.2:F94
same (Williams). 1901	A1.9:125
Food standards, committee on, of Association of Official Agricultural	
Chemists, report of:	A7 3.58
1898. p. 128 1899. p. 116	A7.3:57
1900. p. 146	A7.3:62
1901. p. 169 Foods and feeding stuffs:	A7.3:67
Chemical study of, more thorough, report of committee of Associa-	
tion of Official Agricultural Chemists on ways and means for	1 =
securing. 1890. p. 117. Outline of work on, for 1901 (Krug). 1901.	A7.3:28
Foods and food adulterants. Pts. 1-10.	A7.3:13
Foods and food control (Bigelow). 1902	A7.3:69

	Index
•	Classification no.
Foot, diseases of, among cattle (Trumbower). p. 349	
Same, among horses (Holcombe), p. 357	A4.2:H78
Foot-and-mouth disease, or aphthous fever:  Causes and symptoms of, and measures against. p. 585	A 1 1.880
same, p. 282	
Europe. 1869. p. 385 *	A27.9:7
Instructions concerning inspection of live stock for. 1902	A4.2:F73
Nonexistence of, in the west (McLean). 1881. p. 319	A1.0:34 A1.1:991_9
Report on, 1881 (Lyman). p. 33	A27.9:11
Warning to all owners of cattle, sheep, and swine (Salmon).	
1902	A4.4:38
See also Aphthse. Forage:	
Common crops for, value of, 1897, p. 5	A1.9:65
French mode of curing. p. 397. Succulent, for farm and dairy (Williams). 1899. p. 613	A1.1:875
Succulent, for farm and dairy (Williams). 1899. p. 613	A1.10:899
Forage conditions:	A 9 9.10
Eastern Rocky Mountain region (Williams). 1898	A3.3:12 A19.3:15
Prairie regions (Smith). 1895. p. 309	
Forage crops:	
Cultivated, of Northwestern States (Hitchcock). 1902	
Leguminous (Smith). 1897. p. 487	A1.10:897
Tex. (Bentley). 1899.	A3.4:23
Seed of, plan for distributing, etc. 1902	A19.2:F74
Sorghum as a (Williams). 1897	A1.9:50
Soy bean as a (Williams)	A1.9:58 A1 0:147
See also Pigs—Soy bean—Velvet bean.	A1.0.147
Forage plants:	
Agricultural grasses and, of U.S., and such foreign kinds as have	41.0.00
been introduced (Vasey)  Arizona and New Mexico, notes on (Pool). 1888. p. 48	A1.8:32 A6.3:6
Collected in Russia by M. A. Carleton, for section of seed and	A0.0.0
plant introduction, Agriculture Department. 1899	A6.6:4
Cultivation on alkali soils (Smith). 1898. p. 535.	A1.10:898
Experiments with range grass and, at Highmore, S. Dak., report of progress (Scribner). 1899	A3.4:21
same (Scribner). 1901	
Forage resources and, of Gulf States (Tracy). 1898	A3.3:15
Of secondary or undetermined importance for Southern States,	
and composition of forage plants grown in South (Tracy).	A 10. 0.0
1896. p. 91. Ontario, experiments with (Kennedy). 1899.	A10.6:6 A3.4:20
Semiarid West (Georgeson). 1893. p. 145.	A10.3:16
South (Tracy). 1894	A1.9:18
Southern (Scribner). 1899	
Western Texas, investigation of (Nealley). 1888. p. 30	A6.3:6
. plant—Cowpeas—Crimson clover—Fodder—Grass—Grasses	
and forage plants—Kafir corn—Maize—Millets—Rape—Salt-	
bushes — Sorghum — Soy bean — Velvet bean — Vetches.	A 9 .0.19
Forage resources, Red Desert of Wyoming (Nelson). 1898	A9.0:19
Range improvement and administration. 1902. p. 85	A10.3:115
Range improvement and administration. 1902. p. 85	A7.3:51
Forbes, S. A.:  Address as first vice-president Association of Economic Ento- mologists, at 4th annual meeting, 1892. p. 68	
mologists, at 4th annual meeting, 1892, n. 68	A9.7:5
Address as president of Association of Economic Entomologists.	
Address as president of Association of Economic Entomologists, at 5th annual meeting, 1893. p. 61.  Arsenical poisons for plum and peach curculio. 1889. p. 3	A9.7:6
Arsenical poisons for plum and peach curculio. 1889. p. 3	Ay.7:2

<sup>\*</sup> By a misprint, this page number appears twice.

#### Index ·

	Classification no.
Forbes, S. A.—Continued	
Chinch bugs— early occurrence of, in Mississippi Valley. 1889. p. 249	A9.7:1
experiments on. 1883. p. 23  Corn-root aphis, summary history of. 1891. p. 233	A9.3:2
Corn-root aphis, summary history of. 1891. p. 233	A9.7:3
Entomology, office and laboratory organization. 1889. p. 185 Hessian fly parasite, importation of, from Europe. 1891. p. 179.	A9.7:2 A9.7:4
Nursery inspection and orchard insecticide work in Illinois. 1901.	A0.1.4
p. 172. White grubs, life history of. 1891. p. 239.	A10.3:99
Forbush, Edward H.:	A9.7:3
Gipsy moth, recent work against. 1898. p. 78	A9.6:17
game. 1899. p. 104	A9.6:20
Hairy caterpillars, destruction of, by birds. 1899. p. 85	A9.6:20 A29.3:11 <sup>1</sup>
Forecasting for rivers of small drainage area, especially those of	A20.5.11
North Carolina (Herrmann). 1902. p. 158	A29.3:31
Forecasts. See Weather forecasts. Ford, Milton. Fruit culture, paper on. 1883. p. 221	A1.7:2
Ford, Seabury. Drought, great, of 1845, in northern Ohio. p. 293.	A29.6:23
Ford, T. S. Hog cholera, communication of, by carrion crows.	
p. 325	A4.1:895-6
ment stations.	
Foreign agriculture, notes on, monthly	A27.9:
Foreign cities: Disposition of dead animals in. p. 346	A4.1:899
Dressed poultry in (Ashby). p. 330	A4.1:899
Foreign countries:  Agricultural experiment stations in (True and Crosby). 1902	A10,3:112
Agricultural statistics of, official. 1892. p. 79.	A27.9:30
Contagious diseases among domesticated animals in, consular	4 4 7 001 0
reports on. p. 343	A4.1:891-2 A4.1:899
same. 1900 (Thompson). p. 492	A4.1:900
Cows and cattle of (Pearson). 1896. p. 38.	A4.3:11
Horse trade of U.S. with. p. 600	A1.1:871
Live stock in, statistics of. 1886. p. 25	A27.9:24
same. 1899. p. 442 Regulations of, regarding importation of American plants, trees,	A4.1:899
and fruits (Howard). 1900.	A9.5:41
Foreign exchanges, system of, report on. p. 530	A1.1:868
See also Agricultural societies, foreign.  Foreign markets:	
Eggs and poultry, p. 321	A4.1:899
Monthly prices from, Jan., 1873-Dec., 1876.	A27.9:
Testimony before Industrial Commission relative to, for American agricultural products (Hitchcock). 1901	A1.8:67
Foreign Markets Division, Agriculture Department [formerly For-	4.10
eign Markets Section]: Work of for farmer (Hitchcock). 1897. p. 270	A12. A1.10:897
Foreign trade. See Trade.	111.10.001
Foremilk, bacterial flora of, relation of cheese-curd inflation to	A 10, 9, 90
(Bolley). 1896. p. 78	A10.3:30
paper on (Egleston). 1885. p. 153	A1.7:9
Forest fires:  Connection of reilroads with (Feleston) 1887 n 128	A 19 9.1
Connection of railroads with (Egleston). 1887. p. 128	A13.4:14
Legislation regarding, in U.S. (Fernow)	A13.4:13
Smoke from (Abbe). 1894. p. 329	AZ9.6:ZZ
Practical assistance to farmers, lumbermen, and others in handling	
(Pinchot). 1898 Working plan, near Pine Bluff, Ark. (Olmsted). 1902	A13.4:21
working plan, near l'ine Blun, Ark. (Ulmsted). 1902	A15.5:5Z

Index
-------

	Classification no.
Forest nursery, collection of tree seeds and propagation of seedlings	
(Sudworth). 1900	A13.3:29
Forest reserves:	41.10.001
Grazing in (Roth). 1901. p. 333	A1.10:901
ment for, memorial, reports, and extracts from press. p. 155 Legislation, recent, on State forestry commissions and	
Names, locations, areas, etc. 1899. p. 755	
Forest school. See Aschaffenburg, Bavaria.	
Forest trees:	A1.2:Se3 <sup>8</sup>
Brief instructions on seed sowing and. 1873	A1.2:565
more, with notes and brief descriptions of more important	
species (Vasey). 1876	A1.8:11
Culture and management of (Thomas). p. 43	A1.1:864
Culture of (Vasey). 1872. p. 381	A27.9:10
Dakota, culture in (Smith). 1891. p. 50	A13.3:5
Evergreen and other, causes of destruction of in northern New England, additions to third report on. 1886. p. 17	A9.3:12
Fungous diseases of (Schrenk). 1900. p. 199	A1.10:900
Insects of—	AO 9.9
notes on (Packard). 1882. p. 24 observations on, New York State (Felt). 1902. p. 63	A9.6:31
study of (Hopkins). 1895. p. 75	A9.6:2
Insects injurious to, report on (Packard)—	
1886. p. 20 1890	A9.3:13 A8.1:4
1893. p. 53	A9.3:32
Kansas, experiments in (Vasey). 1872. p. 506	A27.9:10 A1.1:875
Native and naturalized, of U.S., catalogue of (Vasey). p. 151  North American, distribution of. 1884	A1.7:5
same (Vasey). 1884. p. 38	A1.7:5
Planting of, in Spain. 1876. p. 263 San Francisco mountain region, Arizona (Merriam). 1890.	A27.9:14
p. 119	A5.5:3
Young, oviposition in, by Tetraopes femoratus, fab. (Gillette). 1897. p. 76	A9.6:9
Forest work, States having offices for, list of—	210.0.0
1898. p. 620	A1.10:898
1899. p. 702 1900. p. 655	A1.10:899 A1.10:900
1901. p. 630	A1.10:901
Forest working plan for Township 40, Totten and Crossfield purchase, Hamilton Co., N. Y., State forest preserve (Hosmer and	
Bruce). 1901	A13.3:30
Forestation, re-, and rainfall in Leeward Islands (Alexander). 1901.	100.0.00
p. 254	A29.6:29
Abstracts of reports of agricultural experiment stations on.	
1889-1902	A10.6:
same introduction to report, 1898, p. 7	A13.3:16
Educational men, circular to, relative to forestry. 1886	A13.4:1
same, 1887 For farmers (Fernow). 1898	A13.4:2
same, pts. 1-4. p. 461	A1.10:894
same, pts. 1-4. p. 461	A1.10:895
Investigation, progress of (Hough), p. 653	A 1.1:880
List of publications relating to, in Agriculture Department	48444000
List of publications relating to, in Agriculture Department library. 1898.  Mississippi Valley, preliminary report on (Baker). 1883	A17.3:24
Ohio and Indiana, certain portions of (Furnas). 1884. p. 348.	A1.5:25 A13.5:4
Ohio and Indiana, certain portions of (Furnas). 1884. p. 346 Ontario, address on (Phipps). 1884. p. 43 Paper on (Baker). 1883. p. 181	A1.7:5
Faper on (Baker). 1883. p. 181	A1.7:2

	Classification no
Forestry—Continued	
Practical— in the Adirondacks (Graves). 1899	A 19 9.90
in southern Appalachians (Price). 1900. p. 357	A 1 3.3.20 A 1 10.900
Practice of, by private owners (Graves). 1899. p. 415	A1.10:899
Primer of, pt. 1 (Pinchot)	A13.3:24
Primer of, pt. 1 (Pinchot)	A1.10:898
Progress in—	
1899. p. 752	
1900. p. 733	
Progress of, in U. S. (Pinchot). 1899. p. 293.	
Relation of railroads to forest supplies and (Kern). 1887. p. 11.	A13.3:1
Reports on, vols. 1-3 (Hough); vol. 4 (Egleston)	A13.5:
Schools of, list of—	
1899. p. 703	A1.10:899
1900. p. 656	
1901. p. 631	
Trees important in. 1897. p. 645	A1.10:897
United States, address on, before American Forestry Congress,	
St. Paul. Aug. 8, 1883 (Loring)	A1.7:1
Western States and Territories. p. 515.	A1.1:878 ·
What is forestry? (Fernow). 1891	A13.3:5
Forestry, American Association of. See American Forestry Association.	
Forestry, Belgian Exposition of Agriculture and. See Belgian.	
Forestry, first international congress of agriculture and, 1893. See	
Vienna.	
Forestry associations, list of, with officers—	
1898. p. 620	A1.10:898
1899. p. 702 1900. p. 655	A1.10:899 A1.10:900
1901. p. 631	A1.10:901
Forestry Bureau, Agriculture Department [formerly Division of	1111101001
Forestry]	A13:
Forestry commissions, State and forest reserves, recent legislation on.	A13.4:17
Forestry Division, Agriculture Department, work of, for the farmer	11 10.007
(Fernow). 1897. p. 143. Same (Pinchot). 1898. p. 297.	A1.10:897 A1.10:898
Forestry Exhibition, International, 1884. See Edinburgh, Scotland.	A1.10.000
Forests:	
American, their destruction and preservation (Starr). p. 210	A1.1:865
Area in, percentage of, 1866. p. 385	A27.9:4
Austrian coast provinces, culture in. 1873. p. 141	A27.9:12
Cascade Mountains of Oregon, growth and sheep grazing in (Coville)	A13.3:15
Clearing and cultivation, effect of, upon water supply and soil,	222010120
rainfall, temperature (Fulton). 1899. p. 89	A29.3:24
same (Salisbury). 1899. p. 91	
Crop, measuring (Mlodziansky). 1898	A13.3:20
Culture— extent and value of, etc. p. 226	A1.1:870
incentive to. 1869. p. 145.	A27.9:7
Damage to, by destructive pine bark-beetle (Hopkins). 1893.	
p. 187	A9.7:5
Entomology of, study of, in America (Hopkins). 1902. p. 5	A9.6:37
Europe, preservation in. 1875. p. 242	A27.9:13
Fires in. See Forest fires.	W1.10:900
Flora of—	
additions to, of North America and necessary changes in	
nomenclature of important timber species, with notes (Sud-	
worth). p. 325same, p. 325	A1.1:892
same, p. 325 Rocky Mountain region (Sudworth). 1888. p. 153	A13.1:892
Rocky Mountain region (Sudworth). 1888. p. 183	M19.9:Z

Classification no.

	Classification no.
Forests—Continued	
Forest conditions and, of southern Appalachian Mountain region	11014
(Wilson). p. 13	A1.2:Ap4 <sup>2</sup>
same (Ayres and Ashe). p. 45	A1.2:Ap4 <sup>2</sup> A27.9:12
France, culture in. 1873. p. 147	A27.9:12 A 97 Q:14
Government in its relation to (James). 1888. p. 23	A13.3:2
Growth and timber consumption, letter to Secretary of Agricul-	1110.0.2
ture regarding (Fernow). 1893	A13.2:F76
Headwaters of streams, preservation of (Read). 1884. p. 27	
Influence of—	
introduction and summary of conclusions to reports on (Fer-	•
now). 1893. p. 9	A13.3:7
now). 1893. p. 9.  upon rainfall (McMurtrie). 1874. p. 432.	A27.9:12
on water supplies (remow). p. 297	A13.1:889
Insects injurious to, descriptions of larvæ of. 1883. p. 251	A8.1:3
Insect enemies of, in Northwest, preliminary report on (Hop-kins). 1899. p. 21	A9.6:21
Management in other countries (Phipps). 1883. p. 19.	A1.7:1
Management of, more rational, suggestions in behalf of (Fernow).	A13.4:10
Meteorological observations, review of a study preliminary to	1110
Meteorological observations, review of, a study preliminary to discussion of relation of forests to climate (Harrington). 1893.	
p. 23	A13.3:7
New Hampshire and West Virginia, condition of (Hough). 1884.	
p. 348. Paper on (Edmunds). 1869. p. 22	A13.5:4
Paper on (Edmunds). 1869. p. 22	A27.9:7
Plains, cultivation on, general discussion of (Blodget). p. 316	
Protection and its bearing on theories of forest influences	A13.3:25
Precipitation and its bearing on theories of forest influences (Abbe). 1893. p. 175	A13.3:7
Products of, used for constructing material, insects detrimental	A10.0.7
and destructive to (Hopkins). 1902. p. 60.	A9.6:31
Public lands and. 1872. p. 65	A27.9:10
Rainfall and, relation of, in West India Islands (Hubbard). 1873.	
p. 117	A27.9:11
p. 117. Rainfall and, report on (Hazen). 1897. p. 395.	A29.6:25
Relation of—	111000
to farms (Fernow). 1895. p. 333	A1.10:895
same, p. 43 to water supplies (Fernow). 1893. p. 123	A1.9:67 A13.3:7
Resources of U. S., facts and figures regarding, briefly stated (Fer-	A10.5.7
now). 1896.	A13.4:11
Rocky Mountain, introduction to reports on condition of (Fer-	1110.1112
now). 1888. p. 7	A13.3:2
Rocky Mountains, conditions of, especially in Colorado, Idaho,	
Montana, Wyoming, and New Mexico (Ensign). 1888. p. 41.	A13.3:2
Sanitary significance of (Fernow). 1893. p. 171	A13.3:7
Snowfall and, note on (Abbe). 1899. p. 18	A29.6:27
Southern and western States, condition in (Baker). 1884. p. 105.	
States, condition of (Baker). 1884. p. 181	A 13.0.4 A 13 A 92
Supplies of—	A10.4.20
consumption of, by railroads and practicable economy in their	
use. 1890. p. 13	A13.3:4
relation of railroads to forestry and (Kern). 1887. p. 11	A13.3:1
Washington Territory (Brown). 1884. p. 388	A13.5:4
Western States and Territories, condition of (Furnas). 1884. pp.	• • • • •
246, 255	A13.5:4
Yellowstone National Park, letter relative to, needs of (Hague).	A 10 0.0
p. 206 See also Appalachian forests — Evergreen forests — Forest trees.	A13.3:2
Fort Collins, Colo. Evaporation at (Abbe). 1897. p. 210	A 20 R 25
Fort Lyon, Colo. Artesian well near (White and Aughey). p. 26.	A1.1:881-2
Fort Scott, Kansas:	
Sorghum sugar experiments at, in 1887—	
(Swenson). p. 213	A1.1:887
same, p. 5	A7.3:17

,	Classification no.
Fort Scott, Kansas—Continued	
Sorghum sugar experiments at, in 1887—Continued (Crampton and Fake). p. 221	A 1 1-887
same, p. 5	A7.3:18
same, p. 15.	A7.3:17
(Parkinson). p. 226.	A1.1:887 A7.3:17
Sugar, manufacture of, from sorghum and sugar canes, in 1886, ex-	A1.5.11
periments at (Wiley)	A7.3:14
Fort Smith, Ark. Tornado of Jan. 12, 1898, at (O'Donnell). p. 18.	A29.6:26
Fort Worth, Texas:  Feeding station at, regulations concerning cattle transportation—	
Jan. 3, 1898	A4.5:15
Jan. 9, 1899	A4.5:31 A4.5:57
Jan. 20, 1900	A4.0:07
ceedings of. 1890	A4.2:C29 <sup>1</sup>
Fortier, Samuel:	A 10, 9.90
Gallatin Valley, Mont., duty of water in. 1900. p. 175	
same. 1901. p. 225	A10.3:119
Foss, James H. Florida, soil, resources, and means of transporta-	A 1 0.01
tion. 1882. p. 93. Fossil fungi, notes on (James). 1891. p. 268.	A1.8:21 A28.5:7
Foster, John W. Coffee, cultivation of, in Mexico. 1876. p. 268	A27.9:14
Foul brood, laws relative to, with recent laws against injurious in-	40.0.10
sects in North America (Howard). 1898	A9.6:13
Bacillus obtained from three outbreaks of, study of (Moore).	
1895. p. 63	A4.3:8
Investigation of (Salmon)— 1880. p. 13	A1.6:34
same, p. 387	
1881. p. 258	A1.1:881-2
1883. p. 44	A1.1:883 A1.6:34
same. (Circular.) Feb. 23, 1881	A4.2:F82
See also Chicken cholera — Leukæmia.	
Fowl diseases. See Asthenia — Chicken cholera — Diphtheria — Entero-hepatitis — Fowl cholera — Gape disease of chickens —	
Leukæmia.	
Fowls:	443003
American breeds of (McGrew). p. 513	A4.1:901 A4.1:898
Care and feeding (Watson). 1896	A1.9:41
Diphtheria in, preliminary investigation of (Moore). 1895. p. 39.	A4.3:8
Diseases of, correspondence relating to. 1877. p. 492	A4.1:898
Domestic, internal parasites in, microscopic observations (Taylor).	, , , , , , , , , , , , , , , , , , ,
1884	A1.8:34
Gape disease of. p. 550 same, p. 274	A1.1:885 A4.1:885
Gape disease of, and parasite by which it is caused (Meguin).	
p. 269	A1.1:884
same, p. 281same. 1884. p. 103	A4.1:884 A4.2:An5
Infectious leukæmia in, bacterial disease frequently mistaken for	
fowl cholera (Mooré). p. 185 Management and profit of. p. 329	A4.1:895-6
Missouri industry, and annual loss by disease (Bradley). p. 418.	A4.1:885
Nodular toniggis in (Moore) 1895	A4.4:3
See also Chickens — Ducks — Geese — Hens — Plymouth Rock —	
Poultry — Shrikes — Turkeys.  Fox, Charles P. See, as joint author, Schweitzer, Paul.	
Fox, William F. Lumber industry of State of New York, history	
of. 1902	A13.3:34
Fox Indian Agency. See Sac and Fox Indian Agency.	I

	Classification n
France:	
Agricultural botany, review of publications on, issued in, during	
1896 (Gain). 1897. pp. 841, 940	A10.6:8
Agricultural education in (Smith). 1900. p. 115	A1.10:900
Agricultural industry of. 1866. p. 428	A27.9:4
Agricultural prizes in. 1884. No. 9. p. 44	A27.9:22
Agricultural publications of, notes from recent. p. 626	A1.1:869
Agricultural schools of. 1874. p. 212	A27.9:12
Agricultural syndicates of. 1889. p. 523	A27.9:27
same, 1890. p. 577	A27.9:14
Agriculture in—	
1874. p. 131	A27.9:13
1875. pp. 243, 516	
1875. p. 115	
1867–1876. p. 419	
1893. p. 4	
Agronomic Institute of. 1876. p. 490	
Balloon ascensions on Mar. 24, 1899, in (Bigelow). p. 197	
Beet sugar in, progress of manufacture of. 1866. p. 179	A27.9:4
Chase making in at high altitudes 1875 p. 197	A27.9:13
Cheese making in, at high altitudes. 1875. p. 127.	A27.0.10
Farm products of. 1874. p. 392	A27.8:10
Flood forestein in mothods in mos (Pobinot) 1971. p. 00	A27.9:9
Flood forecasting in, methods in use (Babinet). 1894. p. 94	AZ9.5:11 -
Forage curing in, mode of. p. 397	A1.1:875
Forest culture in. 1873. p. 147.	A27.9:12
Grape vine, cultivation in (Bossert). p. 156	
Grape vine in, black rot of (Frechou). 1890. p. 88	A6.3:11
Grape vine in, downy mildew of, treatment of, in 1887 (Chauzit).	4005
1888. p. 75	A6.3:5
same, 1888 (Prillieux). 1889. p. 49	A6.3:10
Hemp industry in (Dodge). 1892. p. 27	
same, 2d edition. p. 27.	A11.5:1
Hog cholera in. p. 163	A4.1:887-8
same. p. 172.	A1.1:888
Horses in (Green). 1898. p. 39	A1.2:H78
Irrigation in. 1891. p. 278	A15.2:P941
Kite in, note on (Abbe). 1897. p. 490.	A29.6:25
Land in, distribution of. 1888. p. 476	A27.9:26
Live stock in, movement of. 1865-67. p. 380	
Markets for American products in. 1895	A12.3:3
Meteorology in, notes on (Abbe). 1898. p. 553	
Oleomargarine in (Tourgée). p. 513	
Pork, salted, of American origin, importation of (Bouley).	
1884. p. 186. Poultry raising in. 1873. p. 365.	A4.3:30
Poultry raising in. 1873. p. 365.	A27.9:11
Ramie question in, botanical consideration of. 1892. p. 97	A27.8:1
same, 2d edition. p. 97.	A11.5:1
Sands, drifting, experiments in fixing. 1875. p. 520	
Sugar beet, culture of, and manufacture of sugar therefrom	
(McMurtrie). 1880.	A1.6:28
Sugar-beet culture in, notes on (Maxwell). 1890. p. 81	A7.3:30
Tannery refuse in, utilization of. 1876. p. 280	AZ7.9:14
Tariff and reciprocity treaties. 1892. p. 181.	A27.9:30
Vine disease in (Price). 1873. p. 172.	A27.9:11
Wine in, production of, 1883. No. 9. p. 45.	A27.9:22
Wine poisoning in. 1876. p. 487	A27.9:14
See also Clermont-Ferrand — Guadalupe Island, Oceanica —	
Havre — Indo-China — Juvisy — Martinique — Mauritius —	
Nimes — Roubaix — Trappes.	
Francis, Frederick L. See, as joint author, Randolph, Frederick J.	
Frankenfield, Harry Crawford:	
Atmospheric pressure, high and low, monthly report on, Dec.,	400.0
1899-Apr., 1900, June-Dec., 1900, Oct. and Nov., 1901 Daily river stages on principal rivers of U.S., 1896-99	A29.6:
Daily river stages on principal rivers of U.S., 1896–99	AZ9.10:6
Floods and flood warnings. 1901. p. 477	A1.10:901
Mississippi river, floods and flood problems of. 1899. p. 405	A29.6:27

Index	Classification no.
Frankenfield, Harry Crawford—Continued	4.00.4
River and flood service, monthly notes on, Sept., 1898-Oct., 1902. Temperature, humidity, and wind direction, vertical gradients,	A29.6:
preliminary report on kite observations. 1898	A29.5:F
Tornado of May 27, 1896, at St. Louis, Mo. p. 77	
Weather forecasts in State of Missouri. 1895. p. 292	A29.6:23
Frankfort-on-the-Main, Germany. Cost of hauling farm products over wagon roads at (Mason). p. 5.	A22.4:27
Frankland, W. Ashby. See, as joint author, Stiles, Ch. Wardell.	
Franklin, George E.: California gouthern weather area bulletin history of 1996 m 46	A 90, 9.10
California, southern, weather crop bulletin, history of. 1896. p. 46. Weather Bureau stations, should compensation be allowed per-	A29.3:18
sons not in employ of Bureau, while learning station duties,	
to enable them to properly perform such duties in cases of emergency? 1899. p. 127	A29.3:24
Franklin Kite Club, Philadelphia, notes on (Abbe). 1896. pp. 334, 416.	
Same (Abbe). 1897. pp. 162, 165	A29.6:25
Franklinville, N. Y.:  Explosive poises at (Kales) 1897 p. 303	A 90 R 95
Explosive noises at (Kales). 1897. p. 393.  Thunder storms in (Kales). 1897. p. 309.	A29.6:25
Franz Josef Land:	
Auroral observations on 2d Wellmann expedition made in neigh-	A 00. 0.00
borhood of, 1898-99 (Baldwin). p. 107	A29.6:29
of (Baldwin). 1901. p. 351.	A29.1:900
Fraps, G. S.:	A 77 . O . O 7
Pentosan-free crude fiber, determination of. 1902. p. 51	A7.3:67
p. 112	A7.3:62
Sulphur, loss of, in preparing ash of plants. 1901. p. 98	A7.3:62
See also, as joint author, Withers, W. A. Frear, William:	
Abstract committee of Association of Official Agricultural Chem-	
ists, report of. 1893. p. 148	
same. 1894. p. 211  Address of, as president of Association of Official Agricultural	A7.3:43
Chemists, at 14th annual convention. 1897. p. 7	A7.3:51
Vinegar, analysis of, provisional method for. 1902. p. 62	
Wheat varieties, extension of tests applied to. 1890. p. 131 Frear, William, and McDonnell, Henry Barnett. Phosphoric acid,	A10.5:2
available, determination of, comparison of Wagner's and pres-	
ent association method for. 1886. p. 26	
Frechou, ——. Grapevines, black rot of, in France. 1890. p. 88 Fredericksen, J. D. Sugar beet, introduction of, and manufacture of	A6.3:11
beet sugar in the Northwest as compared with countries of	
Europe. 1879. p. 275. Freedmen, improvident habits of. 1873. p. 39.	A1.6:28
Freedmen's labor, notes on. 1866. p. 346	A27.9:11 A27.9:4
Same. 1870. p. 9	
Freezes. See Florida — Frosts.	
Freight rates: Domestic and trans-Atlantic, monthly, Aug., 1893-Dec., 1895	A27.9:
Ocean transportation of products of agriculture, Oct. 1, 1895—Oct.	
1, 1896. Railroad, from Chicago. 1866. p. 27	A27.8:12
Road materials and, in certain States north of Ohio River, infor-	AZ1.8:4
Road materials and, in certain States north of Ohio River, information regarding. 1894.  same, in Eastern and Southern States. 1894.	A22.3:6
same, in Eastern and Southern States. 1894	A22.3:7
same. 1896. p. 597	A1.10:896
Transportation companies, monthly notes on, Aug., 1882–July,	
1893	A27.9:
French Henry F:	
Agricultural colleges, historical sketch of. p. 137	A1.1:865
Country roads, description of formation of. p. 538	A1.1:866

	Classification no.
French, Hiram T.:	1 4 1 000
Feeding sheaf wheat to hogs. p. 494	A4.1:898
Sheaf wheat, feeding to steers. p. 486	
Wheat in sheaf and chopped wheat for pigs. p. 494	
"French Napoleon," stallion, account of. p. 320	A1.1:866
Fresno, Cal., soil survey around (Means and Holmes). p. 333	A26.5:900 <sup>1</sup>
Friend, Charles W.:	
Earthquakes at Carson City, Nevada, 1875–98. p. 64	A29.6:28
Seismograph at observatory at Carson City, Nev. 1900. p. 245.	A29.6:28
Frisby, Almah J., and Bryant, Arthur Peyton. Potato, composition	
of different parts of, and loss of nutrients during process of	A 10 0.40
boiling. 1897. p. 25	A10.3:43
in 1897. 1899. p. 7.	A10.3:70
Froelich, Louis. Grape, scuppernong, letter on. 1868. p. 449	
Frogs as an eradicator of fluke disease (Stiles). p. 220.	A4.1:901
Frost:	
August, 1863. No. 4. p. 33	A27.9:1
California (Hilgard). 1896. p. 166	A29.6:24
California, southern, prediction and prevention (Abbe). 1895.	
pp. 341, 464	A29.6:23
	A29.6:27
Fighting of (McAdie)— 1899. p. 111	A29.3:24
1900	A29.3:29
1901	A29.6:29
Formation of—	
note on (Abbe). 1897. pp. 213, 308	A29.6:25
same (Cuthbertson). 1902. p. 125	A29.6:30
peculiarities in, over coast region of South Carolina (Jesu-	1.00.0.00
nofsky). 1902. p. 479	A29.6:30
St. Paul, note on (Abbe). 1897. p. 401	A29.6:26 A29.6:25
Hoar, especially rich in nitrogen (Abbe). 1896. p. 371	A29.6:24
First killing, dates of, in Indian Territory and Oklahoma (Abbe).	1520.0.23
p. 328	A29.6:22
Injury from, and methods of protection (Hammon). 1896	A29.2:F92
same, revised. 1899 Mardela Springs, Md., in May (Abbe). p. 172.	A29.3:23
Mardela Springs, Md., in May (Abbe). p. 172.	A29.6:23
Moonshine and, notes on (Abbe). 1898. pp. 115, 261	A29.6:26
Notes on (Garriott). 1898	A1.9:104 A29.6:29
Predictions, value of, and best method of making them locally	
(Linney). 1894. p. 230.	A29.6:21
Prevention of, radiant heat for, notes on (Abbe). 1899. p. 156	A29.6:27
Protection from—	
experiments in, notes on (Abbe). 1899. p. 62	A29.6:27
hot water in (Abbe). 1900, p. 110	A29.6:28
note on— 1804 (Abba) = 463	A 90 R 99
1894 (Abbe). p. 463	A 29 R 23
1899 (Abbe). p. 475.	
Resistance of strawberries to. 1901. p. 19	A1.9:133
Strawberry crop and, note on (Abbe). 1899. p. 474	A29.6:27
Work on, in South Africa, notes on (Abbe). 1900. p. 14	A29.6:28
Frostless belts, notes on (Abbe). 1893. p. 365. Frosts and freezes as affecting cultivated plants (Galloway). 1895.	A29.6:21
p. 143	A1.10:895
Fruit crop: Condition of, monthly notes on	A 27 Q.
Prospects in United States. May 1, 1894. p. 251	A27.9:32
same	A27.9ª:F94
Fruit-culture institute. See Geisenheim-on-the-Rhine, Prussia.	
Fruit garden, home, preparation and care (Corbett). 1902	A1.9:154
Fruit growers:	40 7 4
Bees of great value to (Benton). 1892. p. 254	A9.7:4

ingex	Classification BO.
Fruit growers—Continued	
Irrigation practice among, on Pacific coast (Wickson). 1902  Practical suggestions for (Gould). 1902	A10.3:108
Practical suggestions for (Gould). 1902	A1.9:161
Fruit growing: California. 1892. p. 99	A1.8:20
Indiana. 1873. p. 356	A27.9:11
Irrigation in (Wickson). 1900	A1.9:116
Progress in— 1899. p. 748	A1.10:899
1900. p. 731	A1.10:900
1901 (Ragan). p. 673	A1.10:901
Southern, for market. p. 143	A1.1:6/1
California, statistics of (Holmes). 1901	A27.8:23
Influence of refrigeration on (Taylor). 1900. p. 561	A1.10:900
1897. p. 305	A1.10:897
same, reprinted, with historical and descriptive notes on	
varieties of apples suitable for export trade. 1898	
Fruit-tree bark-beetle, circular relative to (Chittenden). 1898	A9.5:29
Arsenical spraying of, while in blossom (Lintner). 1893. p. 181.	
Close root pruning of (Clark). 1899. p. 13	A1.9:103
Fruits and, of Middle States, propagation, influence of stocks, diseases, and enemies (Lodge). p. 199	A1.1:865
Gum in, production of (Vasey), 1874, p. 27	A27.9:12
Important enemy to; San Jose scale; its appearance in eastern	
U. S.; measures to be taken to prevent its spread and destroy it (Howard). 1893	A9.5:3
Insecticides on, some effects of early spring applications of (Felt).	
1900. p. 22	A9.6:26
Winter killing of, note on (Abbe). 1900. p. 15	A29.6:28
Japanese peach, report on. 1889. p. 64	A9.7:2
Morelos orange, report on (Riley). 1888. p. 45.	A9.7:1
Fruitarians and Chinese, nutrition investigations among, at California Agricultural Experiment Station, 1899–1901 (Jaffa). 1901	A10.3:107
Fruits:	
American—	
regulations of foreign governments regarding importation of (Howard). 1900	A9.5:41
scale insects on, imported into Germany (Reh). 1900. p. 79.	A9.6:22
American and East Asian, sketch of relationship between (Bailey).	A1.10:894
Breeding of, notes on (Hansen). 1893. p. 92.	A10.3:16
Canning vegetables and, in U.S., statistics of, from census of	4 - 10 005
1890. 1895. p. 552	A1.10:895 A1.10:896
Catalogue of, recommended for cultivation in various sections of	
U. S. 1897	A20.3:6
same, including British provinces. 1899	A20.3:8 A1.7:2
Decays in, study of (Halsted). 1893. p. 91	A10.3:16
Deciduous, notes on irrigation of (Wickson). 1900. p. 80	A10.3:76
Desiccation of (Watts). 1875. p. 507	A27.9:379 A1.9:38
Dried—	
San Jose scale on (Howard). 1898. p. 7	A9.6:18
Exotic, of California, notes of (Hilgard). 1892. p. 137	A1.8:20
Experiments with fertilizers on, to study feeding capacities of plants and variations due to action of fertilizers. 1891	
plants and variations due to action of fertilizers. 1891	A10.4:19
Field notes, 1890 (Smith). p. 107same, 1892 (Smith). p. 373	A28.5:7
Florida—	
description of (Atwood). p. 140	A1.1:867
procedum in, noces on (Abbe). 1800. p. 10	1 A20.U.20

	Classification
Fruits—Continued	
Fruit trees and, of Middle States, propagation, influence of stocks,	
diseases, and enemies (Lodge). p. 199	A1.1:865
Gathering, ripening, and keeping (Clarke). p. 152	A1.1:864
Hardy, popular varieties of (Elliott). p. 141	A1.1:864
same, cont'd (Elliott). p. 186	A1.1:865
same, cont'd (Elliott). p. 131	A1.1:806
Hamintones in sections on effect of (Webster) 1997	A1.1:867
Hemipterous insect punctures on, effect of (Webster). 1887. p.	AO 9.19
Insects affecting (Howard). 1896. p. 100	A9.3:13
Iowa, northern, cultivation of. 1868. p. 321	A9.6:4 A27.9:6
Japanese insects, two, injurious to (Matsumura). 1898. p. 36.	A27.8:0 A9.6:10
Mechanical cold storage for (Clark). 1900. p. 12	
Michigan, Lake, eastern shore of, statistics of (Ganzhorn). 1869.	A1.0.118
	A27.9:7
p. 298 *	A27.9:13
same, in western part. 1868. p. 322	A27.9:6
Michigan region, facts relating to (Clubb). 1870. p. 37	A27.9:8
Mississippi rapids, culture on (Gregg). 1869. p. 225	A27.9:7
Naming and exhibiting, rules for. 1900. p. 742	A1.10:900
Notes on (Galloway). 1889. pp. 37, 92, 214	A28.5:5
Originators of, list of. 1889	A10.4:6
same, with addresses and names of specialties	
Our native, improvement of (Bailey). 1896. p. 297	A1.10:896
Peaches and other, in England. 1895	A12.4:1
Planting, distances apart, in commercial plantations. 1897. p. 689.	
Popular varieties of (Elliott). p. 368	A1.1:875
Production of, in U.S. in 1889, and quantities and values im-	•
ported from 1890–1895. p. 551	A1.10:895
same, 1891–1896. p. 596	A1.10:896
Protection of, from injury by heat or cold during transportation	
(Harrington). 1894	A29.2:F94
Regions of northern U.S., and their local climates (Lippincott).	4 4 4 000
p. 137	A1.1:866
Russian and other, adaptation of, to extreme northern portions	4.00.0.0
of U. S. (Lyon). 1888	A20.3:2
Seriously injured by moths (Mally). 1902. p. 90	A9.6:31 A19.3:22
Small—	A18.3:22
culture for market (Taylor). 1895. p. 283	A 1 10.895
culture of (Gilchrist). p. 57.	A20.1:895
Spraying for insect pests and fungous diseases, with special consid-	1120.1.000
eration of subject in its relation to public health. 1892	A1.9:7
Stone, food value of (Langworthy). 1899. p. 22.	
See also Peach twig-borer.	
Thinning, experiments found profitable. 1898. p. 15	A1.9:73
Tropical and semitropical, condition of, in U.S. in 1887; Florida	, -
and Gulf States (Reasoner). p. 7	A20.3:1
same, California, Arizona, and New Mexico (Klee). p. 111	A20.3:1
Utilizing surplus (Brackett). p. 309	A1.10:898
Varieties, little-known, considered worthy of wider dissemina-	
tion (Taylor). 1901. p. 381	A1.10:901
Vegetables and, from California, transportation rates on. 1883.	
No. 59. p. 45	A27.9:21
West, far, native, (Thompson). p. 207	A1.1:865
West Virginia, insects, observations on (Hopkins). 1896. p. 71.	
Wild, of northern Wisconsin. 1890. p. 484	AZ7.9:28
Wisconsin, culture of. 1868. p. 322.	A27.9:6
See also Apples — Apricots — Bananas — Berries — California —	
Caprifig — Cherries — Citron — Date — East Asian fruits — Figs — Grape — Isabella grape — Le Conte pear — Muscatel	
raisins — Muskmelons — Nursery stock — Olive — Orange —	
Peaches — Pear — Pineapple — Plums — Pollination — Poma-	
ceous fruits—Pomology Division—Prunes—Quince—Raisin	
grape — Raisins.	
* Ry a mienrint this nage number ennears twice	

Fruits and fruit products: Analysis of, provisional method for (Munson and Tolman). 1902. p. 74 Chemical and microscopical examination, pt. 1, Chemical examination (Munson and Tolman). 1902. p. 9 Same; Pt. 2, Microscopical examinations (Howard). 1902. p. 103. Fruits of grasse. See Caryopsis of grasses. Fryer, Michael. Flax culture, instructions in. p. 92. Fruits of grasse. See Caryopsis of grasses. Fryer, Michael. Flax culture, instructions in. p. 92. In 1887-91, list of (Eaton). 1892. p. 138. Fuelling, John L.: Sorghum-sugar experiments at Meade, Kans. 1889. p. 79. See also, as collaborator, Wiley, Harvey Washington. Fuller (Governor of Vermont). Address of, before National Road Conference, July, 1894. p. 3. Fuller, B. F. See, for report as Chief of Accounts and Disbursements Division, Agriculture Department, 1892. Fullimider, J. H.: Cattle interests of West. Cattle interests of West. Southern cattle fever, fatal outbreak of, at Deerfield stock farm, Kans. p. 463. Fulton, M. W. Draft upon horses. p. 511. Forest clearing and cultivation, effect of, upon water supply and soil, rainfall, temperature. 1899. p. 98 River gages, automatically recording, introduction of. 1902. p. 220. Scientific investigation under certain conditions, original, advisability of supplying employees of Weather Bureau with apparatus for carrying on. 1902. p. 22. Fults wheat, description of. 1871. p. 327. Layed Same (Hinds). 1901. p. 78. Funigator or small orchard trees. 1901. p. 21 Abnormal structures in, induced by Ustilago zee mays, study of. (Knowles). 1899. p. 98 River and toxic effects of Bordeaux mixture on (Swingle). 1896. Attacks of, treatment of seed with copper sulphate to prevent. (Evans). 1896. Blackberry rust, Perennial mycelium of (Newcombe). 1891. p. 106. Custer County, Colorado. (Cockerell). 1889. p. 84 A28.5:5 A28.5:5 Gromein and other, collection of, prepared for distribution (Patterson). 1902. Free new, report on (Ellis and Tracy). 1891. p. 76 A28.5:5 Gromein and other, collection of (Taylor). 1878. p. 431. A28.5:5 Grom		Classification n
Chemical and microscopical examination, pt. 1, Chemical examination (Munson and Tolman). 1902. p. 103.  Fruits of grasses. See Caryopsis of grasses. Fryer, Michael. Flax culture, instructions in. p. 92.  Fruits of grasses. See Caryopsis of grasses. Fryer, Michael. Flax culture, instructions in. p. 92.  Frugia and Patagonia, moses from, collected by U.S. S. "Albatrose" in 1887-91, list of (Eaton). 1892. p. 138.  Folialing, John L.:  Sorghum-sugar experiments at Meade, Kans. 1889. p. 79.  same, at Sterling, Kans. 1892. p. 30.  Fuller, G.F. See, for eymont). Address of, before National Road Conference, July, 1894. p. 3  Fuller, B.F. See, for report as Chief of Accounts and Disbursements Division, Agriculture Department, 1892.  Fullin, M. W. Draft upon horses. p. 511.  Fullon, M. W. Draft upon horses. p. 511.  Fullon, M. W. Draft upon horses. p. 511.  Forest clearing and cultivation, effect of, upon water supply and soil, rainfall, temperature. 1899. p. 89.  River gages, automatically recording, introduction of. 1802. p. 220.  Scientific investigation under certain conditions, original, advisability of supplying employees of Weather Bureau with apparatus for carrying on. 1902. p. 22.  Fultz wheat, description of. 1871. p. 327.  Fungiation with carbon-bisulphide (Du Buysson). 1893. p. 159. A96.30  Fungiation, Emory; new method for handling hydrocyanic-acid gas in orchards (Johnson). 1899. p. 43  Fungiation, Emory; new method for handling hydrocyanic-acid gas in orchards (Johnson). 1899. p. 43  Alge and toxic effects of Bordeaux mixture on (Swingle). 1896. A28.3:10  Alge and toxic effects of Bordeaux mixture on (Swingle). 1896. A28.3:10  Alge and toxic effects of Bordeaux mixture on (Swingle). 1896. A28.3:10  Alge and toxic effects of Bordeaux mixture on (Swingle). 1896. A28.5:5  Alge and toxic effects of Bordeaux mixture on (Swingle). 1896. A28.5:5  Alge and toxic effects of Bordeaux mixture on (Swingle). 1896. A28.5:5  Blackberry rust, Perennial mycelium of (Newcombe). 1891. p. 76. A28.5:5  Economic and other, coll	Analysis of, provisional method for (Munson and Tolman).	A 7 9 85
Pruits of grasses. See Caryopsis of grasses. Fryer, Michael. Flax culture, instructions in. p. 92	Chemical and microscopical examination, pt. 1, Chemical examination (Munson and Tolman). 1902. p. 9.	
Fryer, Michael. Flax culture, instructions in. p. 92 Fuegia and Patagonia, mosses from, collected by U. S. 8. "Albatross" in 1887-91, list of (Eaton). 1892. p. 138. Fuelling, John L.: Sorphum-sugar experiments at Meade, Kans. 1889. p. 79. Same, at Sterling, Kans. 1892. p. 30. See also, as collaborator, Wiley, Harvey Washington. Fuller (Governor of Vermont). Address of, before National Road Conference, July, 1894. p. 3 Fuller, B. F. &c., for report as Chief of Accounts and Disbursements Division, Agriculture Department, 1892 Fullinwider, J. H.: Cattle interests of West. p. 271 Southern cattle fever, fatal outbreak of, at Deerfield stock farm, Kans. p. 463 Fulton, W. W. Draft upon horses. p. 511. Forest clearing and cultivation, effect of, upon water supply and soil, rainfall, temperature. 1899. p. 89 River gages, automatically recording, introduction of. 1902. p. 220. Scientific investigation under certain conditions, original, advisability of supplying employees of Weather Bureau with apparatus for carrying on. 1902. p. 22 Litz wheat, description of. 1871. p. 327. Same (Hinds). 1901. p. 78 Fumigator, Emory; new method for handling hydrocyanic-acid gas in orchards (Johnson). 1899. p. 43 Fungi: Abnormal structures in, induced by Ustilago zee mays, study of. (Knowles). 1889. p. 14 Algæ and toxic effects of Bordeaux mixture on (Swingle). 1896. A28.5:5 Algæ and toxic effects of Bordeaux mixture on (Swingle). 1896. A28.5:5 Custer County, Colorado. (Cockerell). 1889. p. 84 A28.5:6 Custer County, Colorado. (Cockerell). 1889. p. 84 Blackberry rust, Perennial mycelium of (Newcombe). 1891. p. 106. Custer County, Colorado. (Cockerell). 1899. p. 463 A28.5:5 Few new, report on (Ellis and Tracy). 1891. p. 76. A28.5:6 Few new, report on (Ellis and Tracy). 1891. p. 76. A28.5:5 Feed observations with (Halsted). 1899. p. 80. A28.5:6 Grape, microscopic observations of (Taylor). 1878. p. 431. A28.5:5 Feed observations of (Raylor). 1878. p. 431. A28.5:5 A28.5:5 Feed observations of (Raylor). 1878. p. 431. A28.5:5 A28.5:5 A28.5:5 A28	p. 103	A7.3:66
in 1887-91, list of (Eaton). 1892. p. 138	Fryer, Michael. Flax culture, instructions in. p. 92	A1.1:864
same, at Sterling, Kans. 1892. p. 30.  See also, as collaborator, Wiley, Harvey Washington.  Fuller (Governor of Vermont). Address of, before National Road Conference, July, 1894. p. 3.  Fuller, B. See, for report as Chief of Accounts and Disbursements Division, Agriculture Department, 1892.  Fullin, Meler, J. H.:  Cattle interests of West. p. 271.  Southern cattle fever, fatal outbreak of, at Deerfield stock farm, Kans. p. 463.  Fulton, M. W. Draft upon horses. p. 511.  Forest clearing and cultivation, effect of, upon water supply and soil, rainfall, temperature. 1899. p. 89.  River gages, automatically recording, introduction of. 1902. p. 220.  P. 220.  Fullz wheat, description of. 1871. p. 327.  Fumigation with carbon -bisulphide (Du Buysson). 1893. p. 159.  Same (Hinds). 1901. p. 78.  Same (Hinds). 1901. p. 78.  Same (Hinds). 1901. p. 78.  Algre and toxic effects of Bordeaux mixture on (Swingle). 1896.  Algre and toxic effects of Bordeaux mixture on (Swingle). 1896.  Algre and toxic effects of Bordeaux mixture on (Swingle). 1896.  Algre and toxic effects of Bordeaux mixture on (Swingle). 1896.  Algre and toxic effects of Bordeaux mixture on (Swingle). 1896.  Algre and toxic effects of Bordeaux mixture on (Swingle). 1896.  Algre and toxic effects of Bordeaux mixture on (Swingle). 1896.  Algre and toxic effects of Bordeaux mixture on (Swingle). 1896.  Algre and toxic effects of Connecticut Experiment Station (Tharter). 1899. p. 278.  Economic and other, collection of, prepared for distribution (Patterson). 1902.  Edible and poisonous, some (Farlow). 1897. p. 453.  Algre and toxic effects of Connecticut Experiment Station (Tharter). 1899. p. 278.  Economic and other, collection of, prepared for distribution (Patterson). 1899. p. 48.  Al 1.884.  A4.1:884.  A4.1:8	in 1887-91, list of (Eaton). 1892. p. 138	
Conference, July, 1894. p. 3.  Fuller, B. F. See, for report as Chief of Accounts and Disbursements Division, Agriculture Department, 1892.  Fullinwider, J. H.:  Cattle interests of West. p. 271.  Southern cattle fever, fatal outbreak of, at Deerfield stock farm, Kans. p. 463.  Fulton, W. Draft upon horses. p. 511.  Forest clearing and cultivation, effect of, upon water supply and soil, rainfall, temperature. 1899. p. 89.  River gages, automatically recording, introduction of. 1902. p. 220.  Scientific investigation under certain conditions, original, advisability of supplying employees of Weather Bureau with apparatus for carrying on. 1902. p. 22.  Fumigation with carbon bisulphide (Du Buysson). 1893. p. 159.  Same (Hinds). 1901. p. 78.  Fumigation with carbon bisulphide (Du Buysson). 1893. p. 159.  Age and toxic effects of Bordeaux mixture on (Swingle). 1896.  Attacks of, treatment of seed with copper sulphate to prevent. (Evans). 1896.  Blackberry rust, Perennial mycelium of (Newcombe). 1891. p. 106.  Custer County, Colorado. (Cockerell). 1889. p. 84.  A28.5:6  A28.5:7  Cattle interests of West.  A21.1884  A41.1884  A28.3:31  A29.3:31  A29.3:31  A29.3:31  A29.3:31  A29.3:31  A29.3:31  A29.3:31  A29.3:31  A29.6:30	same, at Sterling, Kans. 1892. p. 30.  See also, as collaborator, Wiley, Harvey Washington.	A7.3:26 A7.3:37
Division, Agriculture Department, 1892 Fullinwider, J. H.: Cattle interests of West. p. 271 Southern cattle fever, fatal outbreak of, at Deerfield stock farm, Kans. p. 463 Fulton, M. W. Draft upon horses. p. 511 Forest clearing and cultivation, effect of, upon water supply and soil, rainfall, temperature. 1899. p. 89 River gages, automatically recording, introduction of. 1902. p. 220 Scientific investigation under certain conditions, original, advisability of supplying employees of Weather Bureau with apparatus for carrying on. 1902. p. 22  Fultz wheat, description of. 1871. p. 327 Fumigation with carbon bisulphide (Du Buysson). 1893. p. 159 Same (Hinds). 1901. p. 78 Sumigator for small orchard trees. 1901. p. 21 Algre and toxic effects of Bordeaux mixture on (Swingle). 1896. Attacks of, treatment of seed with copper sulphate to prevent. (Evans). 1896. Blackberry rust, Perennial mycelium of (Newcombe). 1891. p. 106 Custer County, Colorado. (Cockerell). 1889. p. 84 A28.5:6 Custer County, Colorado. (Cockerell). 1889. p. 84 A28.5:6 Custer County, Colorado. (Cockerell). 1899. p. 453 Economic and other, collection of, prepared for distribution (Patterson). 1902. Few new, report on (Ellis and Tracy). 1891. p. 76 A28.5:6 Field observations with (Halsted). 1894. p. 93 A11.0:897 Same, reprinted. 1898. p. 20 Fossil, notes on (James). 1891. p. 288 Field observations of (Taylor). 1873. p. 431 Helena, Mont., notes on (Kelsey). 1889. p. 82 A28.5:5 Hyphomycetous, some new species of (Ellis and Everhart). 1889. p. 24 Hyphomycetous, some new species of (Ellis and Everhart). 1889. p. 11.  Kansss. new species of (Kellerman and Swingle). 1889. p. 11.  A2.1:844 A4.1:884	Conference, July, 1894. p. 3	A22.3:10
Southern cattle fever, fatal outbreak of, at Deerfield stock farm, Kans. p. 463  Fulton, W. W. Draft upon horses. p. 511	Division, Agriculture Department, 1892	
Fulton, M. W. Draft upon horses. p. 511	Southern cattle fever, fatal outbreak of, at Deerfield stock farm,	
soil, rainfall, temperature. 1899. p. 89  River gages, automatically recording, introduction of. 1902. p. 220.  Scientific investigation under certain conditions, original, advisability of supplying employees of Weather Bureau with apparatus for carrying on. 1902. p. 22.  Fultz wheat, description of. 1871. p. 327.  Funigation with carbon bisulphide (Du Buysson). 1893. p. 159. A27.99  Fumigator for small orchard trees. 1901. p. 21.  Fumigator, Emory; new method for handling hydrocyanic-acid gas in orchards (Johnson). 1899. p. 43.  Fungi:  Abnormal structures in, induced by Ustilago zeæ mays, study of. (Knowles). 1889. p. 14.  Algæ and toxic effects of Bordeaux mixture on (Swingle). 1896.  Attacks of, treatment of seed with copper sulphate to prevent. (Evans). 1896.  Blackberry rust, Perennial mycelium of (Newcombe). 1891. p. 106.  Custer County, Colorado. (Cockerell). 1889. p. 84.  A28.5:5  Described in recent reports of Connecticut Experiment Station (Thaxter). 1891. p. 278.  Economic and other, collection of, prepared for distribution (Patterson). 1902.  Edible and poisonous, some (Farlow). 1897. p. 453.  A28.5:6  Few new, report on (Ellis and Tracy). 1891. p. 76.  A28.5:6  Grape, microscopic investigations of (Taylor). 1876. p. 464.  A27.9:14  Hawthorn, microscopic investigations of (Taylor). 1876. p. 431.  Helena, Mont., notes on (Kelsey). 1889. p. 80.  A28.5:5  same, supplement (Anderson). 1889. p. 82.  A28.5:5  Kansas, new species of (Kellerman and Swingle). 1889. p. 11.  A29.3:31  A29.3:31  A29.3:31  A29.7:6  A28.5:5  A28.5:5	Fulton, M. W. Draft upon horses. p. 511	A4.1:898
Scientific investigation under certain conditions, original, advisability of supplying employees of Weather Bureau with apparatus for carrying on. 1902. p. 22	soil, rainfall, temperature. 1899. p. 89.  River gages, automatically recording, introduction of. 1902.	
Fultz wheat, description of. 1871. p. 327.  Fumigation with carbon-bisulphide (Du Buysson). 1893. p. 159. A9.7:6  Same (Hinds). 1901. p. 78	Scientific investigation under certain conditions, original, advisability of supplying employees of Weather Bureau with ap-	
Same (Hinds). 1901. p. 78. A9.6:30 Fumigator for small orchard trees. 1901. p. 21 Fumigator, Emory; new method for handling hydrocyanic-acid gas in orchards (Johnson). 1899. p. 43 A9.6:20 Fungi: Abnormal structures in, induced by Ustilago zeæ mays, study of. (Knowles). 1889. p. 14 Algæ and toxic effects of Bordeaux mixture on (Swingle). 1896. Attacks of, treatment of seed with copper sulphate to prevent. (Evans). 1896. A28.3:9 Blackberry rust, Perennial mycelium of (Newcombe). 1891. p. 106 Custer County, Colorado. (Cockerell). 1889. p. 84 A28.5:5 Described in recent reports of Connecticut Experiment Station (Thaxter). 1891. p. 278. A28.5:5 Economic and other, collection of, prepared for distribution (Patterson). 1902. A19.3:8 Edible and poisonous, some (Farlow). 1897. p. 453 A1.10:897 same, reprinted. 1898. A28.5:6 Field observations with (Halsted). 1894. p. 93 A10.3:20 Fossil, notes on (James). 1891. p. 268. A28.5:6 Grape, microscopic observations of (Taylor). 1876. p. 464. A27.9:11 Helena, Mont., notes on (Kelsey). 1889. p. 80 A28.5:5 Hymenomycetous, some new species of (Ellis and Everhart). 1889. p. 24 Hyphomycetous, new species of (Ellis and Everhart). 1889. p. 24 Hyphomycetous, new species of (Ellis and Everhart). 1889. p. 68 Kansas, new species of (Kellerman and Swingle). 1889. p. 11. A28.5:5	Fultz wheat, description of. 1871, p. 327	A27.9:9
Fungi: Abnormal structures in, induced by Ustilago zeee mays, study of. (Knowles). 1889. p. 14  Alge and toxic effects of Bordeaux mixture on (Swingle). 1896. Attacks of, treatment of seed with copper sulphate to prevent. (Evans). 1896. Blackberry rust, Perennial mycelium of (Newcombe). 1891. p. 106. Custer County, Colorado. (Cockerell). 1889. p. 84  Described in recent reports of Connecticut Experiment Station (Thaxter). 1891. p. 278. Economic and other, collection of, prepared for distribution (Patterson). 1902.  Edible and poisonous, some (Farlow). 1897. p. 453  Same, reprinted. 1898. Few new, report on (Ellis and Tracy). 1891. p. 76. Field observations with (Halsted). 1894. p. 93  Fossil, notes on (James). 1891. p. 268. Field, Mont., notes on (Kelsey). 1889. p. 80  Same, supplement (Anderson). 1889. p. 80  Same, supplement (Anderson). 1889. p. 82  Hyphomycetous, some new species of (Ellis and Everhart). 1889. p. 24  Hyphomycetous, new species of (Ellis and Everhart). 1889. p. 24  Kansas, new species of (Kellerman and Swingle). 1889. p. 11.  A28.5:5	Same (Hinds). 1901. p. 78	A9.6:30
(Knowles). 1889. p. 14  Algæ and toxic effects of Bordeaux mixture on (Swingle). 1896. Attacks of, treatment of seed with copper sulphate to prevent. (Evans). 1896.  Blackberry rust, Perennial mycelium of (Newcombe). 1891. p. 106.  Custer County, Colorado. (Cockerell). 1889. p. 84  Described in recent reports of Connecticut Experiment Station (Thaxter). 1891. p. 278  Economic and other, collection of, prepared for distribution (Patterson). 1902.  Edible and poisonous, some (Farlow). 1897. p. 453  Same, reprinted. 1898  Few new, report on (Ellis and Tracy). 1891. p. 76.  Field observations with (Halsted). 1894. p. 93  Al. 10:897  A28.5:6  A28.5:7  A28.5:7  A28.5:6  A1.10:897  A28.5:6  Field observations with (Halsted). 1894. p. 93  A10.3:20  Fossil, notes on (James). 1891. p. 268  Grape, microscopic observations of (Taylor). 1876. p. 464  Hawthorn, microscopic investigations of (Taylor). 1873. p. 431.  Helena, Mont., notes on (Kelsey). 1889. p. 80  A28.5:5  Hymenomycetous, some new species of (Ellis and Everhart). 1889. p. 24  Hyphomycetous, new species of (Ellis and Everhart). 1889. p. 68  Kansas, new species of (Kellerman and Swingle). 1889. p. 11.	in orchards (Johnson). 1899. p. 43	A9.6:20
(Evans). 1896.  Blackberry rust, Perennial mycelium of (Newcombe). 1891. p. 106.  Custer County, Colorado. (Cockerell). 1889. p. 84.  Described in recent reports of Connecticut Experiment Station (Thaxter). 1891. p. 278.  Economic and other, collection of, prepared for distribution (Patterson). 1902.  Edible and poisonous, some (Farlow). 1897. p. 453.  Same, reprinted. 1898.  Few new, report on (Ellis and Tracy). 1891. p. 76.  Field observations with (Halsted). 1894. p. 93.  Fossil, notes on (James). 1891. p. 268.  Grape, microscopic observations of (Taylor). 1876. p. 484.  Hawthorn, microscopic investigations of (Taylor). 1873. p. 431.  Helena, Mont., notes on (Kelsey). 1889. p. 80.  Same, supplement (Anderson). 1889. p. 82.  Hymenomycetous, some new species of (Ellis and Everhart). 1889. p. 24.  Hyphomycetous, new species of (Ellis and Everhart). 1889. p. 428.5:5  Kansas, new species of (Kellerman and Swingle). 1889. p. 11.  A28.5:5	(Knowles). 1889. p. 14  Algæ and toxic effects of Bordeaux mixture on (Swingle). 1896.	1
p. 106. Custer County, Colorado. (Cockerell). 1889. p. 84  Described in recent reports of Connecticut Experiment Station (Thaxter). 1891. p. 278.  Economic and other, collection of, prepared for distribution (Patterson). 1902.  Edible and poisonous, some (Farlow). 1897. p. 453  Same, reprinted. 1898.  Few new, report on (Ellis and Tracy). 1891. p. 76.  Field observations with (Halsted). 1894. p. 93  Fossil, notes on (James). 1891. p. 268.  Grape, microscopic observations of (Taylor). 1876. p. 464.  Hawthorn, microscopic investigations of (Taylor). 1876. p. 464.  Hawthorn, microscopic investigations of (Taylor). 1873. p. 431.  Helena, Mont., notes on (Kelsey). 1889. p. 80.  Same, supplement (Anderson). 1889. p. 82.  Hymenomycetous, some new species of (Ellis and Everhart). 1889. p. 24  Kansas, new species of (Kellerman and Swingle). 1889. p. 11.  A28.5:5	(Evans). 1896	A28.3:10
(Thaxter). 1891. p. 278.  Economic and other, collection of, prepared for distribution (Patterson). 1902.  Edible and poisonous, some (Farlow). 1897. p. 453.  Same, reprinted. 1898.  Few new, report on (Ellis and Tracy). 1891. p. 76.  Field observations with (Halsted). 1894. p. 93.  Fossil, notes on (James). 1891. p. 268.  Grape, microscopic observations of (Taylor). 1876. p. 464.  Hawthorn, microscopic investigations of (Taylor). 1873. p. 431.  Helena, Mont., notes on (Kelsey). 1889. p. 80.  Same, supplement (Anderson). 1889. p. 82.  Hymenomycetous, some new species of (Ellis and Everhart).  1889. p. 24  Hyphomycetous, new species of (Ellis and Everhart).  1889. p. 24  Kansas, new species of (Kellerman and Swingle). 1889. p. 11.  A28.5:5	p. 106. Custer County, Colorado. (Cockerell). 1889. p. 84	
Edible and poisonous, some (Farlow). 1897. p. 453 same, reprinted. 1898.  Few new, report on (Ellis and Tracy). 1891. p. 76.  Field observations with (Halsted). 1894. p. 93 Fossil, notes on (James). 1891. p. 268.  Grape, microscopic observations of (Taylor). 1876. p. 464.  Hawthorn, microscopic investigations of (Taylor). 1873. p. 431.  Helena, Mont., notes on (Kelsey). 1889. p. 80.  Same, supplement (Anderson). 1889. p. 82.  Hymenomycetous, some new species of (Ellis and Everhart).  1889. p. 24.  Hyphomycetous, new species of (Ellis and Everhart).  1889. p. 24.  Kansas, new species of (Kellerman and Swingle). 1889. p. 11.  A28.5:5  A28.5:5  A28.5:5  A28.5:5  A28.5:5	(Thaxter). 1891. p. 278. Economic and other, collection of, prepared for distribution	
Few new, report on (Ellis and Tracy). 1891. p. 76.  Field observations with (Halsted). 1894. p. 93  Fossil, notes on (James). 1891. p. 268.  Grape, microscopic observations of (Taylor). 1876. p. 464.  Hawthorn, microscopic investigations of (Taylor). 1873. p. 431.  Helena, Mont., notes on (Kelsey). 1889. p. 80.  same, supplement (Anderson). 1889. p. 82.  Hymenomycetous, some new species of (Ellis and Everhart).  1889. p. 24  Hyphomycetous, new species of (Ellis and Everhart). 1889. p. 68  Kansas, new species of (Kellerman and Swingle). 1889. p. 11.  A28.5:5  A28.5:5  A28.5:5	(Patterson). 1902	A1.10:897
Hawthorn, microscopic investigations of (Taylor). 1873. p. 431. A27.9:11 Helena, Mont., notes on (Kelsey). 1889. p. 80	Few new, report on (Ellis and Tracy), 1891, p. 76.	A28.5:6
Helena, Mont., notes on (Kelsey). 1889. p. 80	Fossil, notes on (James). 1891. p. 268.  Grape, microscopic observations of (Taylor). 1876. p. 464  Hawthern microscopic investigations of (Taylor). 1873. p. 431.	A28.5:7 A27.9:14 A27.9:11
Hymenomycetous, some new species of (Ellis and Everhart).  1889. p. 24  Hyphomycetous, new species of (Ellis and Everhart).  1889. p.  68  Kansas, new species of (Kellerman and Swingle).  1889. p. 11  A28.5:5  A28.5:5	Helena, Mont., notes on (Kelsey). 1889. p. 80same, supplement (Anderson). 1889. p. 82	A28.5:5 A28.5:5
68	Hymenomycetous, some new species of (Ellis and Everhart).	1
same (Ellis and Kellerman). 1889. p. 142		
	same (Ellis and Kellerman). 1889. p. 142	A28.5:5 A28.5:6

	Classification b
Fungi—Continued	100 5 5
Montana, brief notes on few common (Anderson). 1889. p. 30.	A28.5:5
New species of, notes on—  1980 (Kollorman and Swingle) n. 72	A 90 5.5
1889. (Kellerman and Swingle). p. 72	
1891. (Ellis and Halsted). p. 33	A28.5:6
1891. (Ellis and Everhart). p. 130	A28.5:7
1891 (Ellis) p. 274	A 28.5:7
New Western (Ellis and Galloway). 1889. p. 65. New York, western, new or rare species from, notes on (Fairman).	A28.5:5
New York, western, new or rare species from, notes on (Fairman).	
1889. p. 78	A28.5:5
North American, new and rare species of (Ellis and Everhart).	A28.5:5
North and South America, observations on, new species of (Lager-	A20.0:0
heim). 1891. p. 44	A28.5:7
Potato, microscopic observations of (Taylor). 1873. p. 251	A27.9:11
same (Taylor). 1874. p. 273	A27.9:12
Potato scab, remarks on (De Lagerheim). 1891. p. 103	A28.5:7
Smut, recent investigations on. 1889. p. 87	A28.5:5
same (Brefeld). 1891. pp. 1, 59, 153	A28.5:6
Study of, especially in their relation to plant diseases (Journal	A 90 5.
of Mycology)	A28.5: A1.2:C29 <sup>1</sup>
same. p. 171	
Western, new (Ellis and Galloway). 1889. p. 65	
See also Agarics — Agaricus campestris — Black spot — Erysipheæ	
- Exsiccati - Fossil fungi - Grape fungi - Hymenomycetes	
— Hymenomycetous fungi — Hypoxylon — Isaria — Kansas	
fungi — Leaf-galls — Mucronoporus — Mucronoporus Ander-	
soni — Mushrooms — North American agarics — Nummularia	
— Puccinia — Pyrenomycetes — Saccardo's sylloge — Smut fungi — Uromyces — Ustilago zeæ mays.	
Fungicides:	
Bordeaux mixture as (Fairchild). 1894	A28.3:6
Combination with new and old insecticides, some observations on	
(Galloway). 1894. p. 126.	A9.7:7
Comparative test of, in checking potato blight and rot (Jones). 1893. p. 89	A10.3:16
Copper salts as (Chester). 1891. p. 21	A28.5:6
Effects of certain, upon vitality of seeds (Crozier). 1891. p. 8.	A28.5:6
Experiments with—	
general, in 1889 (Earle). 1890. p. 83 in removal of lichens from pear trees (Waite). 1891. 264	A6.3:11
in removal of lichens from pear trees (Waite). 1891. 264	A28.5:7
to prevent leaf blight of nursery stock (Fairchild). 1891. p. 338.	A28.5:7
Formulas for — 1895. p. 589	A1.10:895
1896. p. 627	
1897. p. 675	A1.10:897
Notes on (Galloway). 1891. p. 25	A28.5:6
Report on (Scribner). 1888.	A28.4:5
Spraying with, effect of, on growth of nursery stock (Galloway).	A 00 0.7
1894Fungicides and insecticides:	A28.3:7
Chemical analysis, methods of (Haywood). 1902	A7.4:10
Chemical composition and effectiveness of certain preparations	
(Haywood). 1901	A1.9:146
same (Haywood). 1902	A7.3:68
Report on, before Association of American Agricultural Chemists—1899. (Voorhees). p. 101.	A = 0 ==
1899. ( V 00rnees). p. 101	A1.3:01 A7 2.69
1900. p. 139	A7.3:02
See also Fungicides — Insecticides.	441.0.01
Fungons diseases:	
Forest trees (Schrenk). 1900. p. 199. Grasshoppers, experimental work with (Howard). 1901. p. 459.	A1.10:900
Grasshoppers, experimental work with (Howard). 1901. p. 459.	A1.10:901
Iowa, new (Pammel). 1891. p. 95	A28.5:7
Aming destructive locusts with (Bruner). 1902. p. 50	Ay.0:38

	Classification no.
Fungous diseases—Continued	
Relation of climate and rainfall to prevalence of. 1899. p. 126.	A10.3:65
Relation of climate and rainfall to prevalence of. 1899. p. 126. Spraying fruits for. 1892.  Treatment of (Goff). 1891. p. 17.	A1.9:7 A28.5:7
See also Grape — Plants.	
Fungous parasite on Aleyrodes citri R. and H., preliminary notice of	400 = =
(Webber). 1891. p. 363 Funston, Frederick. See Coville, Frederick Vernon.	A28.5:7
Fur animals. See Marten.	
Furnas, Robert W.:	
Arizona and New Mexico, agricultural features of. 1892. p. 173	A1.8:20
Forest conditions and lumber and wood trade of western States and Territories. 1884. pp. 246, 255	A13.5:4
Forestry, for certain portions of Ohio and Indiana. 1884. p. 346.	A13.5:4
Raisin-making. 1892. p. 117	A1.8:20
Standard Sugar Refinery, Alvarado, Cal., report on. 1892. p. 91. Swine, crossing improved breeds of, with common hogs of Florida.	A1.8:20
Swine, crossing improved preeds of, with common nogs of Florida.	A4.4:4
Tree growth, maximum size and age, period of decline, comple-	
tion of cycle, etc. 1884. p. 338.  Tree planting and growing on the plains. 1883. p. 202	A13.5:4
Tree planting and growing on the plains. 1883. p. 202	A1.7:2
same. p. 37. See also, as joint author, Hilgard, Eugene Woldemar.	A1.8:28
Furs, insects which attack, fumigation with bisulphide of carbon for	
complete and rapid destruction of (Du Buysson). 1893. p.	
	A9.7:6
Gadflies, remedy for, Porchinski's recent discovery in Russia, with some American observations (Howard). 1899. p. 24	A 9 6 20
See also Tabanidæ.	110.0.20
Gadsden, John W.:	
Cattle, diseases of, contagious, how they are imported and what	A 1 0.00
they cost. 1883. p. 49	A1.8:29 A1.6:12
Pleuro-pneumonia among cattle in Pennsylvania. p. 47	A1.1:881-2
Gage canal, Riverside, California, duty of water under (Irving):	
1899. p. 131 1900. p. 137	A10.3:86 A10.3:104
1901. p. 146	A10.3:104 A10.3:119
Gain, Edmond:	
Agricultural botany, review of publications on, issued in France	110.00
during 1896. 1897. pp. 841, 940	A10.6:8 A10.6:8
Gaines, Richard V. Animal industry of U.S. with especial reference	1110.0.0
to breeding of cattle, horses, etc. 1883. p. 122	A1.7:2
Galapagos Islands, S. A. Plants from, collected by U. S. S. "Alba-	A Q 5.1
tross' in 1887-91, list of (Rose). 1892. p. 136	A6.5:1
1898	A6.3:21
Gale, A. H. Tornado observations, report of. 1899. p. 303	
Gale at Buenos Ayres, Argentina (Abbe). 1895. p. 381	A29.6:23
Effect of, in causing high water (Abbe). 1894. p. 297	A29.6:21
January, from Great Lakes to maritime provinces (Webber).	
1902. p. 11	A29.6:30
Northwest, of southern Blue Ridge and Piedmont region (Hawking) 1899 p. 13	A 29 6:27
kins). 1899. p. 13. Gall-fly, tulip-tree leaf, report on. 1890. p. 362	A9.7:2
Gall lungus. See Cranberry gall lungus.	
Gall makers notes on (Smith) 1801 n 27	A Q 7.4
Gall makers, notes on (Smith). 1891. p. 27. Gallatin Valley, Mont. Duty of water in (Fortier). 1900. p. 175.	A10.3:86
Galloway, Beverly Thomas:	
Black rot, brown rot, downy mildew, powdery mildew, and an-	
thracnose of grape; pear scab and leaf blight and apple pow-	A 28 5 · R
Black rot of grape, treatment of. n. d	A28.4:6
dery mildew, treatment of. 1891. p. 11  Black rot of grape, treatment of. n. d  same. 1889. p. 204	A28.5:5

	Classification
Galloway, Beverly Thomas—Continued	
Cercospora circumscissa, treatment of, suggestions in regard to.	
1891. p. 77	A28.5:7
Frosts and freezes as affecting cultivated plants. 1895. p. 143	
Fruit diseases, spraying for. 1896	
Fruits, notes on. 1889. pp. 37, 92, 214	A28.5:5
	1.00.0
1894	A28.3:7
Fungicides and new spraying pump, notes on. 1891. p. 25	A28.5:6
Fungous diseases of plants, experiments made in 1889 in treat-	AQ 9.11
ment of. 1890.	A6.3:11
Grain, new method of treating, by Jensen process for prevention of smut. 1891. p. 372.	A28.5:7
of smut. 1891. p. 372	A1.9:4
Grapevine diseases, circular on. n. d	A28.4:7
Insect pests and plant diseases, proceedings of national conven-	11201111
tion for suppression of, held at Washington, D. C., Mar. 5 and	
6, 1897	A1.8:57
Insecticides, new and old, and their combination with fungicides,	
some observations on. 1894. p. 126	A9.7:7
Japy knapsack sprayer, improved. 1891. p. 39	A28.5:7
Knapsack sprayer, new, description of. 1891. p. 51	A28.5:6
Nursery stock, treatment of, for leaf blight and powdery mildew.	100 110
	A28.4:10
Pathology of plants, lines of investigation that might be under-	A 10 Q.7
taken by experiment stations. 1897. p. 725	A10.6:7
A = A A = E 1000	A28.4:8
Pine leaf rust, new. 1891. p. 44	
Plant diseases—	1120.0.1
progress in treatment of, in U.S. 1899. p. 191	A1.10:899
treatment of, experiments in. 1891. p. 12. (Pt. 3. For pts.	
1, 2, see Galloway and Fairchild)	A28.5:7
same. 1891	<b>A2</b> 8.3:3
Plant diseases, and possibility of lessening their spread by legis-	
lation. 1897. p. 8	A1.8:57
Plants—	41 10 000
commercial growing of, under glass, progress of. 1899. p. 575.	
health of, in greenhouses. p. 247	A1.10:895
	A1.9:15
Potato diseases and their treatment. 1899	A1.9:91
Rusts affecting wheat and other cereals, treatment of, experiments	
	A28.5:7
Smut in oats and barley, notes on. 1889. p. 164	A28.5:5
Spraying devices, new, circular on. 1899	AZ8.4:17
Vegetable pathology section, record of some work of, including	
correspondence and other communications. 1889. p. 41	A6.3:8
Vegetable Physiology and Pathology Division, Agriculture De-	A1 10-007
partment, work of, for farmer. 1897. p. 99	A1.10:897
See also, as joint author, Ellis, J. B. See also, for reports as Chief, section of vegetable pathology, 1888,	
1889; Division of Vegetable Pathology, 1890–1894; and Divi-	
sion of Vegetable Physiology and Pathology, 1896, 1897, 1899,	
and 1900	A28.1:
and 1900 See also, for reports as Chief, Plant Industry Bureau, Agriculture	
Department, 1901, 1902	A19.1:
See also, for report as Superintendent, Gardens and Grounds Divi-	
sion. Agriculture Department, 1900	A14.1:
Galloway, Beverly Thomas, and Fairchild, David Grandison. Plant	
diseases, treatment of, experiments in. 1891. pp. 89, 137.	100 E.A
(Pts. 1 and 2; for pt. 3, see Galloway, Beverly Thomas)	AZ8.0:0
Galloway, Beverly Thomas, and Southworth, E. A.:	A28.5:5
Apple scab, treatment of, 1889. p. 210.  Oat disease, new and destructive, preliminary notes on. 1891.	1140.0.0
p. 72	A28.5:6
f	,

Index	
Galloway Rayorly Thomas and Woods Albert Fred	Classification no.
Galloway, Beverly Thomas, and Woods, Albert Fred: Trees, shade and ornamental, diseases of. 1896. p. 237 Water as factor in growth of plants. 1894. p. 165	A1.10:896 A1.10:894
	A1.1:863
Galveston, Tex.: Hurricane of Sept. 8, 1900, special report on. p. 372	A29.6:28
Tornado, Nov. 6, 1892 (Wright). p. 309	A29.6:20 A29.6:29
Game:	2230.0.30
Information concerning seasons, shipment, and sale (Palmer and Olds). 1900  Laws of District of Columbia for protection of. 1901	A5.4:31
Noxious animals and, statistics of, in some foreign countries.	
1888. p. 366  Protection of, directory of State officials and organizations for	A5 4.99
1901 (Palmer)  same. 1902	A5.4:35
Transportation and sale of, laws regulating (Palmer and Olds).  1900.	A5.3:14
See also Birds and game.  Game birds:	
Eggs of, regulations for importation of, for propagation. 1902 Of United States (Elliot). p. 356	A5.4:37
Of United States (Elliot). p. 356	A1.1:864
Game laws, digest of (Palmer and Olds):	AE 0.10
1901	A5.3:16 A1.9:160
Game laws of Prussia. 1871. p. 205	A27.9:9
Cattle diseases, general remarks on. 1869. p. 162	
Corn, smutty, ill effects of, on cattle. 1869. p.78same. p. 73	A1.2:C29 <sup>1</sup> A1.2:C29 <sup>2</sup>
Pleuro-pneumonia or lung plague of cattle, preliminary report.	A27.9:6
1868. p. 432 same, full report. 1869. p. 7	A1.2:C29 <sup>1</sup>
same, p. 3	A1.2:C29 <sup>2</sup>
same. n. 82	A1.2:C29 <sup>2</sup>
Gamopetalæ of western Texas, description of (Coulter). 1892. p. 153.	A6.5:2
Gannett, Henry. Rainfall maps, construction of. 1902. pp. 205, 223. Ganzhorn, Jacob. Fruits on eastern shore of Lake Michigan, statis-	A29.6:30
tics of. 1869. p. 298 *	A27.9:7
Chickens. 1898. p. 28	
Fowls. p. 550 same, p. 274	VA: 1:000
Fowls, and parasite by which it is caused (Megnin). p. 269	A1.1:884 A4 1:884
same, 1884. p. 103	A4.2:An5
Young poultry in Kentucky (Garman). p. 504	A4.1:898 A1.10:895
See also Farm — Grass gardens — Home fruit garden — Seed test-	111,10,000
ing — Vegetable garden. Garden, United States propagating:	
Plants, bulbs, tubers, etc., distributed from, and object and aims	A1 8·2
of (Saunders). 1862 Notes from, 1871. (Saunders). p. 476	A27.9:9
Garden, experimental, Agriculture Department. See Experimental	A27.9:10
Gardens and Grounds Office. Garden and field, irrigation in (Wickson). 1901	A1.9:138
Garden City, Kans., grass and forage experiment station at (Sewall).	
p. 342same. p. 342	A1.1:891 A6.1:891

·	Classification no.
Garden crope:	
Florida, insects injurious to (Ashmead). 1887. p. 9	A9.3:14
Insects injurious to (Chittenden). 1899	
same (Chittenden). 1900	A9.6:23
Fertilizers for (Clark). 1898. p. 12.	A1.9:105
See also Crops.  Garden herbarium, making, and its uses (Selby)	A10.3:76
Garden insects: Notes on (Webster). 1890. p. 149.	A9.7:3
Observations in West Virginia on, some notes on (Hopkins).	
1896. p. 71	A9.6:6
1896. p. 71 Tests with insecticides upon (Alwood). 1887. p. 38 See also Garden crops.	A9.3:13
Garden pest, Orthezia insignis as (Cockerell). 1892. p. 89	A9.7:5
Garden truck, rates of charge for transporting, with notes on growth	
of industry (Ward and Holmes). 1901	A27.8:21
Garden vegetables:	
Particularly onions, cabbage, and squash (Huntington). p. 110	A1.1:864
Two dipterous leaf miners on (Coquillett). 1895. p. 381	A9.7:7
See also Potato — Yams.	
Gardening:	A 07 0.9
Hospital. 1865. No. 2. p. 12. Landscape, report on. p. 159.	AZ1.9:3 A1 1.080
See also Agriculture.	A1.1:008
Gardening under glass. 1901. p. 11	A1 9-144
Gardens and Grounds Division, Agriculture Department	A41.
Gardens and grounds. See Experimental Gardens and Grounds	
Office.	
Gardini, Carlo. Hemp in Italy, special consular report on growth	
of. 1897. p. 15	A11.5:11
Gardner, Frank Duane:	
Electrical method of moisture determination in soils, results and	10000
modifications in 1897. 1898.	A26.3:12
Porto Rico Agricultural Experiment Station, annual report for	110 19 001
1901. p. 381.	A10.12:901
See also, as joint author, Means, Thomas Herbert—Whitney, Milton.	
Gardner, Frank Duane, and Jensen, Charles A.:	
Soil survey in Sevier Valley, Utah. p. 243	A26.5:900 <sup>1</sup>
Soil survey in Weber Co., Utah. p. 207.	A26.5:900 <sup>1</sup>
Gardner, Frank Duane, and Stewart, John:	
Soil survey in Salt Lake Valley, Utah. 1900. p. 77.	A1.8:64
Soils of Salt Lake Valley, Utah	A26.4:4
Gardner, Thomas. Wild flowers. p. 155.	A1.1:862
Gardner, W. H. Animals, training, for work. p. 355	A1.1:866
Garlic, wild, circular relative to (Dewey)	A6.4:91
Garman, H.:	A O. 7.0
Entomologist, economic, illustrations for. 1893. p. 109 Entomology in Southern States, report on. 1901. p. 153	A9.7:0 A10.3:99
Gape disease of young poultry in Kentucky. p. 504.	A4.1:898
Hessian fly, spring broad of, time of emergence and oviposition	11.1.1.000
of. 1902. p. 127	A10.3:115
Larvæ, preservation of, for study. 1893. p. 98	A9.7:6
Sarcoptidæ, parasitism among, origin and development of. 1891.	
p. 182	A9.7:4
Garrigues, W. E. Phosphoric acid, determination of, by molybdate	
method. 1894. p. 105.	A7.3:43
Garriott, Edward Bennett:	
Address, as chairman section of forecasts and forecasting, before second convention of Weather Bureau officials held at Mil-	
waukee, Wis., Aug. 27–29, 1901. 1902. p. 115	<b>∆</b> 90 Q.Q1
Atmospheric pressure, high and low, 1895 to 1898. p. 593	A 29 R 28
Chinook winds, report on 1892 n 23	A 29.6:20
Chinook winds, report on. 1892. p. 23	A29.6:23
Frost, notes on. 1899.	A1.9:104
Frost, notes on. 1899.  Morrill, Park, short biography of. 1898. p. 356	A29.6:26

	Classification no
Garriott, Edward Bennett—Continued Pacific coast, north, high areas of, in September, October, and	
November. p. 249.	A29.6:23
Rain-producing processes, some. 1899. p. 67	A29.3:24
River and flood service, monthly notes on. Aug., 1898 St. Lawrence Valley, high areas north of, in October, November,	A29.6:26
and December. p. 292	A29.6:23
Signals, Weather Bureau. 1892. p. 48	
floods and cold waves of year, report on. p. 208	A1.1:898
same, p. 27	A29.1:898
1895. p. 167	A29.6:23
types of, in January, 1895. p. 9	A29.6:23
Warm waves of July and August, 1892. p. 223	A29.6:20
Weather, unseasonable, in U.S. 1902. p. 301	$\mathbf{A29.6:30}$
Weather Bureau work, extension of. 1900. p. 242.	A29.6:28
Weather conditions, monthly statement of average—	A 000 A 000
September, 1890. p. 395	A29.6:28
October, 1900. p. 430	
November, 1900. p. 483 December, 1900. p. 538	
January, 1901. p. 21.	
February, 1901. p. 57	
March, 1901. p. 117	_
April, 1901. p. 162	
May, 1901. p. 208.	A29.6:29
June, 1901. p. 200	A29.6:29
July, 1901. p. 307	A29.6:29
Weather forecasts and storm warnings, monthly notes on. Sept.,	400.0
1898-Oct., 1902	A29.6:
Weather types, classified, report on. 1901. p. 548	A29.6:29
West Indian hurricanes. 1900	A29.5:H
Wind-barometer table, report on. 1897. p. 204.	A29.6:25
Gas:	1120.0.20
Illuminating, influence of, upon plants (McMurtrie). 1875.	107010
p. 310	A27.9:13
New, in atmosphere, notes on (Abbe). 1898. p. 217	A29.6:26 A1.1:887
same (Coquillett) supplementary report. p. 41	A9 7·1
Use of, against scale-insects. 1887. p. 35	
See also Hydrocyanic-acid gas. Gayon, M. See, as joint author, Millardet, Pierre Marie Alexis.	
Geddings, R. M. Meteorological notes from Porto Rico. 1900. p. 287	A29.6:28
Geer, T. T. Oregon, road improvement in, extract from governor's	A20.0.20
inaugural address. p. 8	A22.4:33
Checklist of animal parasites of (Hassall). 1896	A4.4:14
Ducks and, standard breeds and management of (Howard)	
Raising for profit. 1897. p. 12	
Geisenheim-on-the-Rhine, Prussia. Royal institute for fruit and	
vine culture at, report on. 1885. p. 32	A1.8:36
Geitel, H. See, as joint author, Elster, J. Gemmell, R. C.:	
Big Cottonwood Creek, Utah, duty of water on. 1900. p. 197	A10.3:86
same. 1902. p. 165 Water administration in Utah. 1902. p. 159	A10.3.104
Water administration in Utah. 1902. p. 159	A10.3:104
Generative organs, diseases of:	449,0902
Cattle (Law). p. 169 Horses (Law). p. 135	A4.2:H78
Geneva, N. Y. See New York State Experiment Station.	
Gennert, Theodore. Beet sugar in Europe. p. 158	A1.1:868
Geodesy and meteorology, notes on (Abbe). 1900. p. 545	A29.6:28

	Classification no
Geographic distribution of animals and plants in North America	
(Merriam). 1894. p. 203	A1.10:894
Geographical congress. 7th international, Berlin, 1899, notes on	1
(Abbe). p. 470 Geography and meteorology, popular errors in (Abbe). 1901. p. 375.	A 20. 6.20
Geological ages, climates of (Abbe). 1898. p. 313	A 20,0:29 A 90 R 96
Geological conditions of artesian basins in eastern Colorado and New	A20.0.20
Mexico (Van Diest). 1890. p. 87.	A15.2:Ar72
Geological congress. See Clermont-Ferrand, France.	
Geological structure of Nebraska, with its effect upon water supply (Hicks). 1893. pt. 3. p. 167	A15.2:Ir7 <sup>2</sup>
Geological Survey, U. S., meteorology in, note on (Abbe). 1897.	
p. 541	A29.6:25
Geology:	
South Dakota, west of Missouri River, and Wyoming, east of	A15 0. A-7
foothills of Rocky Mountains (Bailey). 1890. p. 65	
Southern Appalachians (Keith). p. 111	A1.2.Ap4
ard). 1892. p. 382.	
Geomyidæ. See Pocket gophers.	
Georgeson, Charles Christian:	
Agricultural experiments in Alaska. 1898. p. 515same. 1898. p. 7	A1.10:898
same. 1898. p. 7	A10.3:62
Agricultural investigations in Alaska. 1899	1 A10.3:82
same. 1900	A10.3:94
Alaska experiment stations, annual report for 1901. p. 239	A 10.10:1
Dairy industry of Denmark, progress report. 1893	A1.8:50
same, report. 1893	A4.3:5
Forage plants for semiarid West. 1893. p. 145	A10.3:16
Kafir corn, characteristics, culture, and uses. 1896	A1.9:37
Milk, quality of, selling on basis of, how shall it be accomplished	
in retail trade. 1896. p. 93.	A10.3:41
Steer-feeding experiments to ascertain comparative value of corn and red and white Kafir corn. p. 483	A A 1 • 909
Georgia:	A4.1.000
Cattle quarantine of counties in—	
Dec. 14, 1900. p. 11	
Jan. 11, 1902. p. 11	
Dec. 27, 1902. p. 11	A4.5:101
Cattle trade and dairy interests of (Perry). p. 335	A4.1:885
Coccidæ of, notes on (Scott). 1900. p. 49	A1.0:47 A0 R:28
Coccids in, fatal temperature for some (Scott). 1899. p. 82	
Colorado potato beetle in, note on. 1886. p. 32	
Conditions and resources of (Howard). p. 567	
Cotton in. 1866. p. 329.	A27.9:4
Cotton plant in, insects injurious to the (Grote). 1878. p. 351	A9.2:C82
Cotton worm in, in 1878 (Willet). 1878. p. 358	A9.2:C82
Grasses of, in Elliott's sketch of botany of South Carolina and	A21.8.0
Georgia, notes on (Scribner). 1901.	
Insects of year in (Quaintance). 1899. p. 56	
Irrigation of rice in (Keeney) 1902 n 59	A 10 3·113
Jarring for curculio on extensive scale in, with list of insects	
Jarring for curculio on extensive scale in, with list of insects caught (Scott and Fisk). 1902. p. 24.  Plums and peaches in, preliminary note on new species of Aphis	A9.6:31
injurious to (Scott) 1902 n 58	1 AO 6.21
injurious to (Scott). 1902. p. 56	A 22 3 3
Roads and road-building materials of (McCallie). 1902. p. 50	A22.3:23
San Jose scale in, some practical experiments with various in-	
secticides for (Scott). 1902. p. 41	A9.6:37
secticides for (Scott). 1902. p. 41	A29.6:25
Sheep husbandry in—	
1875. p. 523 1877 (Watts). p. 118	A27.9:13
15// (watts). p. 118	A1.2:503

Index	412 24
Georgia—Continued	Classification no.
Sheep husbandry in—Continued	
1878 (Peters). p. 120	A1.2:Sh3
See also Atlanta—Augusta—Cobb County—Covington—Rabun	
County—Towns County—Union County.  Gerland, E. Meteorology, instrumental, historical sketch of. 18 6.	
p. 687	A29.3:11 <sup>8</sup>
p. 687. Germ fertilizer, nitrogen as, for leguminous plants. 1897. p. 19	A1.9:65
German agricultural experiment stations:	
Aims and tendencies of (Maercker). 1898. p. 103, 207	A10.6:9
(Fassig). 1897. p. 447.	A10.6:8
(Fassig). 1897. p. 447. German Antarctic expedition, kite work of, notes on (Abbe). 1901.	
p. 177	A29.6:29
of notes on (Abbe). 1901. p. 220	A29.6:29
of, notes on (Abbe). 1901. p. 220	A10.4:42
German Meteorological Society, eighth general meeting of (Rotch).	
1898. p. 160	A29.6:26
Germany:	A21.5:0
Agricultural education in. 1876. p. 281  Agricultural schools in, organization and management of (Welch).	A27.9:14
Agricultural schools in, organization and management of (Welch).	A 1 0 00
1885 Agricultural statistics of, 1864. No. 6. p. 33.	A1.8:36
Agriculture of, letter on (Klippart). 1865. No. 6. p. 6.	A27.9:3
American agricultural products, as an importer of. 1894. p. 33.	A27.9:32
American dried apples in	A12.4:2
American name in (Barnes). p. 519	A4.1:898 A4.1:898
American products in, markets for. 1895	A12.3:2
American products in, markets for. 1895	A1.2:H78
Beet sugar in, progress of manufacture of. 1866. p. 179	A27.9:4
Cereal production in, 1876. p. 367.  Climatology in, development of. 1896. p. 652.	A27.9:14 A29.5:11*
Cooperative credit unions or people's banks of. 1891. p. 339	
Crops in, 1870 (Prentiss). p. 283	<b>A27.9:8</b>
Diseases of animals in, 1887. p. 47	A27.9:28
Dogs in, muzzling of (Mason). p. 521 Dried apples in, American (Mason). 1895. p. 15	A7.3:48
Forest area of. 1876. p. 282.  Grapevine cultivation in (Bossert). p. 156.	A27.9:14
Grapevine cultivation in (Bossert). p. 156.	A1.1:863
Horse and dog meat as food in (Guenther). p. 520	A4.1:900 A27 9:14
Horse-breeding in. 1876. p. 119  Horses in, potato bread for (Hughes). p. 530	A4.1:899
Horses to, experience and observation in shipping (Meyers).	
1898. p. 35	A1.2:H78
Liparis (peilura) monacha in, ravages of, and means of defense.	A4.1:000
1891. p. 379	A9.7:3
Meat importation into, from U.S. p. 100	A4.1:893-4
Meat-inspection law, imperial. 1901same, translation and German text. p. 523	A4.4:32 A4.1-000
Military administration of, in its relations to national horse breed-	214.1.000
ing. p. 372	A4.1:898
Nettle in, cultivation of (Stanton). p. 560	A1.1:878
Population of. 1875. p. 496	A27.9:14 A27.9:29
Scale insects on American fruit imported into (Reh). 1900. p. 79	A9.6:22
Science in, practical, notes on (Abbe). 1897. p. 354	A29.6:25
Statistical memoir of (Bödiker). 1874. p. 266	A27.9:12
Trichinosis in general remarks on (Stiles). 1901. p. 81	A4.3:30
Science in, practical, notes on (Abbe). 1897. p. 354. Statistical memoir of (Bödiker). 1874. p. 266 Sugar-beet culture in, notes on (Maxwell). 1890. p. 81. Trichinosis in, general remarks on (Stiles). 1901. p. 9 same, statistical review during 1881–1898 (Stiles). 1901. p. 35.	A4.3:30
same, bibliography of (Hassall). 1901. p. 193 Wool import of (Stern). p. 520 Wool production and manufacture in. 1876. p. 494	A4.3:30
Wool import of (Stern). p. 520	A4.1;8 <del>99</del> A97 0-14
MANY Prominion with maintaining in. 1010. b. 101	4441.0.12

	Dissipling the contract was
Germany—Continued	
See also Baden-Baden — Berlin — Bernburg Agricultural Experi-	
ment Station — Brunswick — Canstadt — Cologne — Darm-	
stadt — Frankfort-on-the-Main — Halle — Hamburg — Han-	
over — Mannheim — Munich — Plauen — Stettin — Strasburg.	
Germination, influence of moisture, temperature, and light condi-	
tions on process of (Detmer). 1895. p. 405	A29.3:11 <sup>2</sup>
Gettys, W. Cowpeas and corn for silage and fodder. 1900	A3.4:24
Ghent, Belgium:	
Agricultural station at, report on. 1885. p. 53	A1.8:36
Horticultural school at, report on. 1885. p. 56	A1.8:36
Giant beggar weed (Smith). 1899.	A3.4:13
Giant knot weed or sachaline, circular relative to (Scribner). 1895	A6.4:5
Giard, M. A. Typhlocyba, parasitic castration of, by larva of	
hymenopter and of a dipter. 1890. p. 271	A9.7:2
Gibbs, William H. Rabies, alleged, in Nebraska, investigation of.	
p. 188	A4.1:897
Gibraltar, United States sausages in (Sprague). p. 519	A4.1:899
Gibson, Charles. Phosphoric acid, reverted, differences in determi-	
nation of, by official method of analysis. 1890. p. 166	A7.3:28
Gibson, H. B., Calvert S., and May, David W. Dietary studies at	
University of Missouri in 1895	A10.3:31
Gifford, George. Horses, American, in Switzerland. p. 503	A4.1:900
Gift, George W. Cotton under high culture. p. 409	A1.1:867
Gilbee, William Armond. Sugar, alcohol in manufacture of, use of.	
1891. p. 8	A7.3:34
Gilbert, B. D. Cheese industry of State of New York. 1896	A4.3:15
Gilbert, Charles Henry. Fishes of Death Valley Expedition, col-	
lected in southern California and Nevada in 1891, report on,	,
with descriptions of new species. 1893. p. 229	A5.5:7
Gilbert, Grove Karl. Water level of Great Salt Lake. 1901. p. 23.	A29.6:29
Gilbert, Sir Joseph Henry:	
Rothamsted, England—	
agricultural investigations at, during 50 years, six lectures on,	
delivered under provisions of Lawes agricultural trust.	
1893	A10.3:22
agricultural investigations at, introduction to six lectures on,	
delivered under provisions of Lawes agricultural trust.	
1894. p. 46	A10.3:20
Same, p. 9	A10.3:22
See also, as joint author, Lawes, (Sir) John Bennett.	4.00 7.00
Gilchrist, James B. Fruit, small, culture of. p. 57	A20.1:895
Gilkison, W. F. Industrials [or manual training], practical impor-	4 4 0 0 70
tance of. 1900. p. 96	A10.3:76
Gill, Theodore. Pisciculture, with reference to American waters.	A 1 .1.000
p. 394.	A1.1:866
Gillam, Frank. Washington, D. C., hot summers and cold winters	A29.6:26
at, 1872–98. p. 456. Gillette, Clarence P.:	A28.0:20
Arsenites and arsenical mixtures as insecticides. 1893. p. 115	A9.7:6
Codling moth, life-history studies on. 1902. p. 5	A9.6:31
Colorado insects, notes on some. 1902. p. 51	A9.6:31
Entomological notes from Colorado, report on. 1900. p. 76	AO R-9R
Entomologists, Economic, objects of Association of. 1900. p. 5.	A Q R · 2R
Grasshopper disease in Colorado. 1896. p. 89	
Insect collections, how shall we improve? 1895. p. 95	A9.6:2
Insects—	A0.U.4
few, that have been unusually abundant in Colorado this year.	
1897. p. 77	A9.6:9
1897. p. 77 vernacular names of. 1897. p. 32	A9.6:9
Iowa Experiment Station, notes on certain experiments and	110.0.0
observations at. 1891. p. 258	A9.7:3
Lantern trap for insects, successful, report on. 1897. p. 75	A9.6:9
Plum curculio and plum gouger, notes on. 1891. p. 227.	A9.7:3
Tetraopes femoratus fab., oviposition in young forest trees by.	
1897. p. 76	A9.6:9
•	

	Classification no.
Gilruth, J. A. Blood poisoning (malignant edema) in sheep and	
lambs in New Zealand. p. 233	A4.1:901
Ginseng:	1000
American, commercial history, protection, and cultivation (Nash).	
Note on. 1885. No. 19. p. 32	A27.9:23
Gipsy moth:  Discussion on, at conference held in rooms of committee on agri-	
culture, Boston, Mass., Mar. 4, 1891, report of. 1891. p. 368.	A9.7:3
Imported, report on. 1890. p. 208.	
Massachusetts—	
in 1891, report upon (Henshaw). p. 75	A9.3:26
notes on (Fernald). 1895. p. 59.	
Recent work against (Forbush). 1898. p. 78.	
same (Forbush). 1899. p. 104. Summary account of introduction and spread of Porthetria dispar	A9.6:20
in Massachusetts, and efforts made by State to repress and	
exterminate it (Howard). 1897	A9.6:11
Gissler, C. F. See, as translator, Cohn, Ferd. — Koeppen, F. T. —	
Wagner, Belthasar.	
Githens, John A. Address of, before National Road Conference,	
July, 1894. p. 5.	A22.3:10
Glacier as an index of climate, notes on (Abbe). 1901. p. 177	A29.6:29
Gladding, —. See, as joint author, Stillwell, —	
Gladding, Thomas. Guanos, natural, determination of citrate-sol- uble phosphoric acid in. 1885. p. 16	A7.3:7
Gladding, T. S. Phosphoric acid, discussion on estimation of.	
1896. p. 75	A7.3:49
Gladding-Lindo. See Lindo-Gladding.	
Glanders:	A 1 1.004
Among horses (Trumbower). p. 418	
Among horses and mules in Texas (Folsetter). p. 393	A4.1:889-90
Bacilli, composition of (De Schweinitz and Dorset). p. 295	A4.1:898
Etiology and diagnosis of. p. 48 same. pp. 156, 206	A4.1:887-8
same. pp. 156, 206	A1.1:888
Investigations concerning (De Schweinitz). p. 289	A4.1:898
Investigations of. 1890. p. 94.	A1.1:890 A4.1:889-90
Outbreak of, at Miami, Mo. (Trumbower). p. 457.	A4.1:884
Regulations regarding. 1889. p. 57	A1.1:889
same. p. 15	A4.1:889-90
Report on (Trumbower). p. 452	A4.1:884
Glanders and farcy:	A1 1.070
Definitions of, etc. (Detmers). p. 445 Horses (Page and Terrell). 1880. p. 202	A1.1:010 A1.6:99
Report on (Detmers). 1879. p. 257.	A1.6:12
Glase, Elvin J.:	
Chinook winds. 1902. p. 41	A29.3:31
Montana, water supply of, for season of 1900 as depending on	
snowfall. p. 495	A29.6:28
Northers, cold waves, and heavy snows, possibility of giving warnings of, to stock-raising interests, 48 hours in advance.	
1899. p. 35	A29.3:24
Glass:	
Gardening under. 1901. p. 11.	A1.9:144
Plants under, treatment of mildews upon (Maynard). 1891.	. A 00 E .0
p. 16. Glassy-winged sharp shooters, report of. 1893. p. 150	A20.0:0 AQ 7:5
Glenn, Samuel W.:	44U+1-U
Climate and crop correspondents, Weather Bureau; should	<b>1</b>
remarks of, be published in weekly bulletins? 1902. p. 188	
Snowstorms, memorable, in South Dakota. 1897. p. 15	
Storm-warning messages (Form 1043 C), should [they] be of	
some distinctive color to more readily attract attention? 1899.	A 29 3 24
p. 53	416V.U.#T
	•

A11.	
<b>Classification</b>	no.

	Classification
Gleesporium nervisequum, report on (Southworth). 1889. p. 51. Glover, Townend:	A28.5:5
Beetles, food and habits of. p. 78	A1.1:868
Entomological exhibition in Paris, Aug. and Sept., 1865. p. 88 Entomological record, monthly, OctDec., 1871, Feb., 1872-Oct.,	A1.1:865
1875	A27.9:
[The more important articles are indexed under their various subjects.] Foreign letters from—	
1st, Aug., 1865. No. 8. p. 6	A27.9:3
2d. No. 8. p. 10 3d. No. 9. p. 6	A27.9:3
Life and entomological work of (Dodge). 1888	A9.3:18
See also, for reports as Entomologist, Agriculture Department, 1863-77	A9.1:
Glucose, commercial, cane sugar in presence of, report on determi-	
nation of (Weber and McPherson). 1894. p. 126	A7.3:43
Goats:	
Breeding and raising of (Diehl). p. 216	A1.1:863 A1.1:867
Keeping, for profit (Barnes). 1898. p. 421	A1.10:898
Roundworms in, treatment of (Stiles). 1901	
same. 1902. p. 7. Skins of, Dermestes vulpinus in (Jones). 1889. p. 63	A4.3:35 A9.7.2
Verminous diseases of, in Texas, 1900 (Stiles). p. 356	A4.1:900
same. 1901 (Stiles). p. 223	
See also Angora goat — Cashmere goat — Rocky Mountain goat. Goble, W. F. Grasshoppers, sketch of. 1867. p. 290	A27.9:5
p. 92	A9.7:5
Goff, E. S.: Apple scab, treatment of—	
1890. p. 22	A6.3:11
1891. p. 19	A28.5:6
1893. p. 87. Fungous diseases, treatment of. 1891. p. 17.	A10.3:16 A28.5:7
Gooseberry mildew and apple scab, experiments in treatment of.	
1889. p. 33	A28.5:5
1896. p. 103	
1900. p. 95 1901. p. 132	
Vegetable nomenclature, work of experiment stations in reform	A10.5.88
of. 1891. p. 47. "Going light." See Asthenia.	A10.5:3
"Golden fleece," Cotswold ram. p. 340	A1.1:866
Golden Gate fair. See Oakland, Cal.	
Goldfinger, Max. Mannheim, Germany, cost of hauling farm products over wagon roads at. p. 9	A22.4:27
Goldmann, F. Volatile acids in butter, determination of total. 1890.	!
p. 112 Gomberg, M. Pine, long-leaf, trees of, resinous contents and their	A7.3:24
distribution in, chemical study of, before and after tapping for turpentine. 1893. p. 34.	A13.3.8
Gonioctena, poplar, report on (Cook). 1891. p. 67	A9.7:4
Animal products of, exports and imports. p. 529	A4.1:899
Insects of, notes on (Lounsbury). 1897. p. 34	Ча <b>.о</b> :я
Good roads congresses. See Buffalo, N. Y. — Chicago, Ill. Good roads conventions. See Houston, Tex. — Richmond, Va. — St.	
Paul, Minn.	; !
Goodale, George Lincoln:	1 100 0 00
Rainfall and charts of rainfall. 1902. p. 226. Vegetable physiology, suggestions for investigations in. 1897.	A29.0:30
p. 438	A10.6:7

	Classification no.
Goodale, S. L.:	
Breeding, physiology of. p. 222	A1.1:862
Cheese, manufacture of, as a staple article of export. p. 381	A1.1:803
Address of, as president of Association of American Agricultural	
Colleges and Experiment Stations, at 5th annual meeting.	410.0 =
1891. p. 53  Agricultural experiment stations, bulletins of, what is mission of?	A10.3:7
1895. p. 69. Agriculture, colleges of, what should be taught in? 1896. p. 71.	A10.3:24
Agriculture, colleges of, what should be taught in? 1896. p. 71.	A 10.3:41
See also, as editor of proceedings, Agricultural Colleges and Experiment Stations, American.	
Goodloe, Daniel R.:	
North Carolina, agriculture and climate of. 1867. p. 150	A27.9:5
Southern States, resources and industrial condition of. 1865.	A1.1:865
p. 102 Goodrich, C. P. Butter making on farm. 1897	A1.9:57
Goodrich, Reuben. Letter of, to convention of National League for Good Roads, Washington. 1893. p. 82.	410.0.14
Googeberry mildew, experiment in treatment of (Goff). 1889. p. 33.	A10.3:14 A28.5:5
Gophers:	1220.0.0
Circular on. 1888	A5.4:9
Depredations of, in northern Iowa and southern Minnesota in fall of 1887 (Fisher). p. 454	A 1 1.887
same, p. 454	A5.1:887
See also Florida land tortoise — Pocket gophers	
Gorgas, Charles S., short biography of (Abbe). 1899. p. 17	A29.6:27
Beef, report concerning 6.25 protein factor as applied to. 1899.	
p. 94 Dietary studies in New Mexico	A7.3:57
Mineral matter deposited with snow in northern Indiana, Jan.	A10.3:40
	A29.6:20
8, 1892. p. 20 Nutrition investigations in New Mexico in 1897	A10.3:54
Soils, phosphoric acid in, method for determination of. 1894.	A7.3:43
p. 58 same, and potash. 1895. p. 50	A7.3:47
Gossard, H. A.: Entomology, economic, in Florida, report on. 1901. p. 178	A 10 3.99
Florida, observations of insects; experimental work. 1902. p. 129.	
White-fly investigation, review of, with incidental problems.	
1902. p. 68	A9.6:31
Gould, H. P. Fruit growers, practical suggestions for. 1902	A1.9:161
Government aid in highway improvement (Brigham). 1902. p. 33.	A22.3:25
Government entomologists. See Entomologists. Government in its relation to forests. 1888. p. 23	A13.3·2
Gowdy, John K. Animals, dead, disposition of, in Paris. p. 348.	
Gowell, Gilbert M., and Russell, Fremont L. Dehorning cattle.	A 4 1 -000
p. 489Gowey, John F. American butter in Japan. p. 521	A4.1:898 A4.1:898
Grackles, food of (Beal). 1900.	
Graduate study at Washington, D. C.:	A29.6:30
Note on (Abbe). 1902. p. 134. Report of committee of Association of American Agricultural Col-	
leges and Experiment Stations, 1898, on. p. 58	A10.3:65
same, 1900 Grafting grape cuttings (Smith). 1900. p. 9 Graham, John, ir. Convict labor, use of on public roads. 1895.	A10.3:99
Graham, John, jr. Convict labor, use of, on public roads. 1895.	. A1.5.122
p. 34	
Grain: American cereal, insect foes of, with measures for their preven-	l I
tion or destruction (Webster), 1893, p. 146	A9.7:6
Austria-Hungary as a factor in world's trade	A12.4:19
Birds that injure (Beal). 1897. p. 345	A1.10:897
Commerce in, 1879-81 (Neumann-Spallart). No. 14. p. 35	A27.9:22
· · · · · · · · · · · · · · · · · ·	

	Classification no
Grain—Continued  Crany condition of June 1984 No. 2 n. 0	A 97 O.9
Crops, condition of, June, 1864. No. 3. p. 9	A21.8:2 A97 0:14
English measures. 1863. No. 5. p. 9; No. 6. p. 22	A27.8.14 A97 Q.1
earne No 1 n 35	A27.9.2
same. No. 1. p. 35. Ground vs. whole, for chicks. 1898. p. 19.	A1 9.84
Hemipterous insect punctures affecting (Webster). 1887. p. 54	A9 3:13
Insects affecting, observations upon (Webster). 1890. p. 42	A9.3:22
Light vs. heavy, feeding, for milch cows (Allen). 1900. p. 25	
Markets and crops, foreign, state of. 1864. No. 5. p. 14	A27.9:2
New method of treating, by Jensen process for prevention of	
smut (Galloway). 1891. p. 372	
Odessa, trade in. 1874. p. 144.	A27.9:13
Proportion of, to straw or stover, effect of fertilizers on. 1897.	
p. 11	A1.9:56
Russia—	
northern. 1870. p. 89	A27.9:8
producing districts of (Moffat). 1882. No. 51. p. 14	A27.9:20
Rusts, investigations of, letter relative to (Dabney). 1894	A28.4:14
Small, insects affecting (Webster). p. 573	A1.1:886
Smute in, cause and prevention (Swingle). 1894. p. 409	
same. 1898	A1.9:75
Stored—	
insects injurious to (Chittenden). 1896.	A1.9:45
more important insects injurious to (Chittenden). 1894. p.	
277	A1.10:894
Tillering of (Schulte). 1899. r. 10	A1.9:105
Winter, condition of—	A 0.5 0 5
1869. p. 119	
1870. pp. 19, 113	
1871. pp. 95, 468. 1872. p. 105	
1872. p. 105 1874. p. 15	
1882. Nos. 42, 43	
1883. p. 59	
World's crop in 1899	
Yield of, per acre—	1121.4.11
1884. No. 12.	A 27 9:22
1885. No. 23.	
1886. No. 34.	
1887. No. 45.	
1888. No. 56.	
1889. No. 67.	A27.9:27
1890. No. 78	A27.9:28
1891. No. 89	
1892. No. 98C	A27.9:30
&c_also Algerian durum wheats—Barley—Cereals—Corn—	
Emmer - Flour and grain - Gram - Macaroni wheats -	
Maize — Oats — Red clover seed — Rice — Runner's white	
corn—Rye—Wheat.	
Grain joint-worm flies. See Grass and grain joint-worm flies.	A O C .20
Grain louse, southern (Pergande). 1902. p. 7	A0.7.5
Grain plant-louse, some new parasites of (Howard). 1890. p. 246.	
Grain Toxoptera, notes on (Webster). 1892. p. 245	A9.1.2 AQ 7.4
Gram, chick-pea or Idaho pea (Smith). 1898	10.1. <del>1</del>
Gramineæ (grass family) of western Texas, description of (Dewey).	ANU.T.(
	A6.5:2
1894. p. 484	A29.6:27
Granada, Nicaragua, rainfall of (Henry). 1898. pp. 162, 305	
Grand Valley, Colorado, irrigation in, 1901 (Stover). 1902. p. 265.	
Grandeau, L. Russia, black soil of. 1872. p. 501	· - <del>-</del>
(Huston and McBride). 1893. p. 84.	A7.3:38
Grange, origin, progress, and purposes, address on (Aiken). 1883.	
p. 56. Same	A1.7:2
Same	A1.6:55

	Clasfification no.
Granges, State, officers of:	
1900. p. 672	A1.10:900
1901. p. 638	A1.10:901
Grape:	
American, improvement of. 1901. p. 16	A1.9:144
Black-rot, brown-rot, downy mildew, powdery mildew, and an-	•
thracnose of, treatment of (Galloway). 1891. p. 11	A28.5:6
Black-rot of, experiment in treatment of (Galloway). 1889. p.	400 5 5
	A28.5:5
See also Grape, downy-mildew — Grape mildew — Grapevines.	A 97 0.95
California products. 1887. p. 583	A27.9:25
same. 1866. p. 337	A1.6.0 A97 Q.4
Cuttings, grafting (Smith). 1900. p. 9.	
Diseases of—	
Europe; origin, history, phenomena, and cure (Erni). p. 324.	A1.1:865
Pacific coast (Pierce). 1895	A1.9:30
Pacific coast (Pierce). 1895	A28.5:6
See also Grape mildew.	
Downy mildew and anthracnose, circular asking questions re-	
garding (Willits)	A28.4:11
Downy mildew and black-rot of, treatment of—	
1885	A28.4:1
1887	
1889 black not though mildow Grandwine	A28.4:6
See also Grape, black rot—Grape mildew—Grapevine. Fungous diseases of—	
and their treatment (Galloway). 1891	A 1 Q.4
treatment of (Howell). 1889. p. 49.	A6 3·11
Growing at the West (Thompson). p. 115	
Growing in South (Tracy). 1900.	A1.9:118
Improvement by hybridizing, cross-breeding, and seedlings	
(Campbell). p. 209	A1.1:862
Insect enemies, principal, of (Marlatt)—	•
1895. p. 385 1898	A1.10:895
1898	A1.9:70
1900 (excerpt.), p. 27	A1.9:118
Insects injurious to (Rathvon), 1868. p. 452.	
Isabella, in South America. 1866. p. 426	A27.9.4
preservation of. 1898. p. 29	A 1 Q - 78
unfermented, preparation of (Beal). 1900. p. 27	A1 9·122
Leaf-tyer of (Chittenden). 1898. p. 82.	A9.6:18
Native, improvement of, by seedlings and hybridization (Parker).	1
p. 122	. A1.1:864
New varieties of (Parker). p. 194	A1.1:865
Phylloxera of, notes on (Riley). p. 405	
Popular varieties of (Elliott). p. 119	A1.1:863
Pruning and training of (Lodeman). 1896. p. 499	A1.10:896
Raisin, cultivation of, by irrigation (Eisen). 1891. p. 225	
Ripe, rot of (Southworth). 1891. p. 164.	
Scuppernong, letter on (Froelich). 1868. p. 449	
Wild, of North America, classification and generic synopsis of (Munson). 1890	. <b>▼3</b> 0 3•3
Grape have use of by paper-making wash (Murtfeldt) 1891 n	A20.0.0
Grape bags, use of, by paper-making wasp (Murtfeldt). 1891. p.	A9.7:4
Grape culture:	
California, present condition of (Husmann). 1898. p. 551	A1.10:898
Near Washington, D. C. 1873. p. 282.	A27.9:11
Report on, in U. S.—	1
1863 (Flint). p. 147 1868. p. 207	A1.1:863
1868. p. 207	A1.1:868
Wine-making and, in El Paso del Norte (Pierson). 1873	
Wine production and, in U.S., for 1880, report on statistics of	4 1 <i>0</i> 00
(McMurtrie). 1881	A1.0:30
Grape rungi, microscopic observations of (Taylor). 1876. p. 464	AZ1.9:14

Grape-vine hopper, history of (Glover). 1871. p. 403. A27.9:9
Graphics, agricultural, of U. S., album of. 1890 A27.2:G76

Graptodera foliacea, life-history of (Murtfeldt). 1888. p. 74...... A9.7:1

Index	('lassification no.
Grass and grain joint-worm flies and their allies, a consideration of some North American phytophagic eurytominæ (Howard).	
1896 Grass experiment stations, necessity for (Vasey). 1885. p. 168 See also Garden City, Kans.	A9.8:2 A1.7:9
Grass gardens: Experimental (Smith). 1895 Methods and purposes (Hays). 1893. p. 130	A10.3:16
Report on (Scribner). 1895. p. 301. Grass insects in Washington, D. C., notes on (Osborn). 1891. p. 197	A1.10:895
Liming (Beal and Smith), 1900, p. 5.	A1.9:122
Seeding, without a nurse crop. 1898. p. 11 Grass saw-flies, notes on (Riley and Marlatt). 1891. p. 168 Grass seed and its impurities (Hicks). 1898. p. 473	$\mathbf{A9.7:4}$
Grass seeds: Collection and distribution of (Shear). 1900 Number, weight, cost of, and amount to sow per acre—	A1.4:9
1895. p. 612 1896. p. 632	A1.10:896
1897. p. 670 Grass stations, cooperative: In South (Tracy). p. 344	A1.1:891
same, p. 344 In West and Southwest (McLaren). p. 344 same, p. 344	A1.1:891
Grasserie of silk-worm (Walker). 1891. p. 445	A9.7:3
American, chemical composition of, from investigations in laboratory of Department of Agriculture, 1878–82 (Richardson).	A1.8:32
p. 117	A3.3:7 A3.3:17
same, No. 3 (Scribner) Arizona (Merrill). 1901 Caryopsis of, structure of, with reference to their morphology and	A3.4:32
classification (Kennedy)	A3.3:19 A3.3:4
ner). 1897. p. 7. Condition of, monthly notes on Contributions from U. S. National Herbarium	A27.9: A6.5:
Cutting, curing, and hauling of. 1864. No. 4. p. 6 Economic (Scribner)	A3.3:14
Fertilization of (Vasey). 1873. p. 247	A27.9:11 A3.4:28
Herbarium of Dr. H. Muhlenberg (Scribner and Merrill). 1900 Insects affecting (Webster). p. 573	A1.1:886 A6.3:1
Mexico, new, from, description of (Vasey). 1893. p. 281	A1.7:9
vestigation of, in 1887 (Tracy). p. 5	A6.3:6
circular on. 1901	
1897. p. 5 1898. p. 42 New or noteworthy, from U. S., descriptions of (Vasey). 1893.	
p. 267 New species, miscellaneous notes and descriptions of. p. 36 same (Scribner and Ball). 1900. p. 39 Nomenclature notes. p. 9.	A3.3:4 A3.3:24
Nomenclature of, some changes in (Merrill). 1901. p. 5	A3.4:35
illustrations of (Vasey). 2 vols	A6.2:N82

	Classification no.
Grasses—Continued	1
North American—Continued	
new species of (Scribner). 1899	
same (Scribner). 1899	A3.4:16
Pacific slope, including Alaska and adjacent islands. 2 pts.	
(Vasey)	A6.3:13.
same, reissued. 1893	A6.2:N82 <sup>2</sup>
Plains and eastern slope of Rocky Mountains, catalogue of. p. 217.	A1.1:870
Rocky Mountain (Vasey). 1874. p. 154.	A27.9:12
Salt marshes (Scribner). 1895. p. 325	A1.10:895
Sand and soil binders (Scribner). 1894. pp. 421, 580	
Sand-binding (Scribner). 1898. p. 405.	A1.10:898
Shifting soil, grasses for fixing (Vasey). 1872. p. 223	A27.9:10
Some species of, published by S. B. Buckley (Merrill). 1901	A3.4:30
South; report on certain grasses and forage plants for cultivation	162.2
in South and Southwest (Vasey). 1887	A0.0.0
Southern States (Vasey). 1874. p. 379	A3.4.29 A27.9:12
Southwest. 2 pts. (Vasey)	AR 2.12
same, reissued. 1891	A6.2:N821
Stems of some, notes on some species of insects which affect upper	
portion of (Webster). 1889. p. 372	A9.7-1
United States—	
being synopsis of tribes and genera, with descriptions of genera,	1
and list of species (Vasey). 1883	
British America and, monograph of (Vasey). 1892. p. 1	A6.5:3
descriptive catalogue of, including especially grass collec-	
tions at New Orleans Exposition, 1885 (Vasey)	A6.2:G76
Useful and ornamental (Scribner). 1896	A3.3:3
See also Agricultural grasses and forage plants—Agropyron—Ag-	
rostology—Agrostology Division—Aristida purpurea nutt—	·
Bear grass — Beardless brome-grass — Bermuda grass — Blue	
grass — Brome grass — Bromus — Broom corn — Calamagros-	
tis — Chætochloa — Chess — Clover — Crimson clover — Earth	
almond — Eragrostis obtusiflora — Ergot — Esparto grass —	
Forage plants — Giant knotweed — Gramineæ — Hordeum —	
Hungarian brome grass — Hungarian grass — Ixophorus —	
Johnson grass — Kafir corn — Melica — Mexican grasses —	
Millets — North American grasses — Nut grass — Orchard	
grass — Pacific slope grasses — Panicum nashianum — Pani-	
cum nitidum — Panicums — Poa — Poa fendleriana — Ramie	
or Chinagrass — Range grass — Rescue grass — Rocky Moun-	
tain grasses — Sitanion — Smooth broom-grass — Spartina — Timothy.	
Grasses and forage plants:	
Cooperative experiments with (Kennedy). 1900	A3 3.22
Dakotas (Williams). 1897	A3.3:6
Forage conditions of eastern Rocky Mountain region and (Wil-	
	A3.3:12
Insects affecting, methods of treating (Osborn). 1893. p. 71	
Investigations with, cooperative work of Department of Agricul-	
ture with State experiment stations—	I
1900 (Williams)	A1.4:8
1901 (Williams). p. 148	A10.3:99
1902 (Lyon). p. 71	<b>A</b> 10.3:115
Iowa, Nebraska, and Colorado, notes on (Pamniel). 1897	
Report on (Vasey and Collier). p. 157	A1.1:878
Rocky Mountain region (Rydberg and Shear). 1897	A3.3:5
Seed distribution and cooperative experiments with, records of	
(Scribner). 1902	A19.3:10
Southeastern States, notes on (Kearney). 1895	A3.3:1
Stock ranges of northwestern California (Davy). 1902	A19.3:12
Tables giving number of grains in 1 pound of seed, etc. 1894.	A1 10.004
p. 569. Texas, central (Bentley). 1898.	A1.101074   A2 2.10
Year 1901 (Spillman). 1901. p. 672	A1.10:901
See also Forage plants.	41110.001
-20 men i diago pianto.	•

	Classification no.
Grasses and Forage Plants Investigations, Office of, list of publications of (Spillman). 1902.	A19.2:P96
tions of (Spillman). 1902.  Grasshopper mouse, descriptions of two new species and one new subspecies of (Merriam). 1889. p. 1.	A5.5:2
Grasshoppers:	
Damages from, reported, trip to Kansas to investigate, paper read before Association of Economic Entomologists, 1891	
(Osborn). p. 58 same, report on (Osborn). 1891. p. 49	A9.3:27
same, report on (Osborn). 1891. p. 49	A9.7:4
Differential, in Mississippi delta (Morgan). p. 7.	
Disease of, in Colorado (Gillette), 1896, p. 89	A9.6:6
Fungous diseases of, experimental work with (Howard). 1901.	
p. 459	A1.10:901
Hateful, or Colorado (Caloptenus spretus), information relating to. 1870. p. 81	A27.9:8
Idaho, outbreak of (Bruner). 1890. p. 135.	A27.9:6 A9.7:3
Injuries from, in northwest Missouri, report on trip to investi-	
gate (Osborn). 1893. p. 323	
Large, note on (Glover). 1872. p. 497.	A27.9:10
North Dakota (Waldron). 1892. p. 13. Notes for 1901 (Bruner). 1902. p. 39	A9.3:27
Outlook for, 1892. p. 321	A9.0:36
Report on, for 1895 (Bruner). p. 31	A9.6:7
same, 1896 (Bruner), p. 36	A9.6:7
Sketch of (Goble). 1867. p. 290. Western, suggestions regarding (Driscoll). 1869. p. 145.	A27.9:5
Western, suggestions regarding (Driscoll). 1869. p. 145	A27.9:7
Wingless, of Utah (Glover). 1872. p. 74	A27.9:10
Gravel roads. See Roads.	
Gravelius, H. Rainfall and charts of rainfall. 1902. p. 228	A29.6:30
Graves, Henry Solon:	A 4 4 0 00 0
Forestry, practice of, by private owners. p. 415	A1.10:899
Practical forestry in Adirondacks. 1899. Wood lot belonging to E. D. Page, at Oakland, Bergen County,	A13.3:20
N. J., working plan for. 1898. p. 301	A1.10:898
Graves, John C. Address of welcome, at international good roads	
congress held at Buffalo, N. Y., Sept. 16-21, 1901. p. 9	A22.3:21
Gravimetric method, process for estimating fat in milk by (Dietrich). 1890. p. 159.	A 7 2.9A
Gravity:	A(.0.22
Standard, reduction to, notes on (Abbe). 1898. p. 550	A29.6:26
Terrestrial, variation of, over the ocean (Abbe). 1902. p. 370	A29.6:30
Gray, James J. Tornado and waterspout at Norfolk, Va., on Aug. 6,	
1901. p. 372  Gray hair-streak butterfly and its damage to beans. 1895. p. 354	A29,6:29
Grazing:	
	A1.10:901
Problems in, in Southwest, and how to meet them (Smith). 1899.	
Rainfall and, notes on (Abbe). 1901. p. 176	A29.6:29
Great Basin, northern border of, forage conditions on (Griffiths).	A 19.3·15
Great Britain:	
Agricultural education in, 1865. No. 2. p. 8	
Agricultural imports of, 1869–70. p. 143	A27.9:8
Agricultural statistics of—	A 97 O.4
1866. p. 340	A27.9.5
1868. p. 407	
1868. p. 66	
1869–70. p. 142	A27.9:9
1875. p. 113	
1876. p. 483	A27.9:14
Agriculture, facts in. 1876. p. 201	A4.1:898
	1

Classification no. Great Britain—Continued Animals in, contagious diseases of. p. 37. A4.1:895-6
Breadstuffs in, imports of, 1863-64. p. 35. No. 1 A27.9:3
same, 1874-75. p. 460 A27.9:13 Cattle in consumption and production of. 1865. No. 7. p. 27............ A27.9:3 pleuro-pneumonia in (Reid). 1891. p. 401. A4.1:889–90
Cattle plague in, 1865. No. 8. p. 20 A27.9:3 Cavalry horses purchased by, in Argentina (Buchanan). 1898.
p. 22

Climate of British Islands (Harding). 1896. p. 611

Colonies of, agricultural statistics of. 1870. p. 291

A27.9:8 Cotton importations of— 1868. p. 459
1869. p. 147
1870-71. p. 324
Cotton trade, 1866-67. p. 378
Crop acreage and live stock in. 1875. p. 60
Logs in, muzzling of (Mason). p. 521
Logs, poultry, and meat in (Halstead). p. 508
Lnsilage in. 1885. p. 34. No. 24
Farms, increased production of. 1873. p. 488
Flour imports into 1868. p. 39

A27.9:6 Flour, imports into, 1868. p. 39.

same, 1875–76. p. 486.

Food supply. 1871. p. 476.

Grain imports. 1876. p. 363.

A27.9:14 same, 1875-76. p. 486

Guano in, consumption of, 1854-63. No. 6. p. 29

Harvest in. 1863. No. 2. p. 7

Hay in. 1894. p. 145

A27.9:33

A27.9:33 Imports of— Locust swarms on coast of (Swinton). 1883. App. p. 57...... A8.1:3 

 Manures in. 1868. p. 38.
 A27.9:6

 Markets for American products in. 1895.
 A12.3:1

 Revenue of, source of— 1866–67. p. 249 ...... A27.9:5 1870. p. 143.

Rinderpest in, statistics of. 1866. p. 432.

Russian wheat, imports of, 1852-67. p. 39.

Sheep, imports of, 1898-1900. p. 606.

A4.1:901 

	Classification no.
Great Britain—Continued	
Trade between U.S. and, falling off of. 1865. No. 5. p. 32	A27.93
Wheat—	
consumption and production of. 1865. No. 7. p. 27	A27.9:3
importations of—	
1868. p. 459	A27.9:6
1869. p. 147	
1870–71. p. 324	
1873–74. p. 45	A27.9:13
supply, 1872–86. p. 641	A27.9:25
See also England — Hongkong — India — Malta — Mauritius.	
Great Eastern Canal, Platte County, Nebr. Irrigation under, 1900	1.000.00
(Stout). p. 195	A10.3:104
	A10.3:119
Great Lakes:	100 10 1 0
Aneroid barograph on, instructions for use of. 1897	A29.12:An3
Commerce on, and its relation to Weather Bureau (Abbe). 1900.	100 000
p. 17	A29.6:28
Current chart of. 1892.	A29.2:C93
Currents of, as deduced from movement of bottle papers, 1892 and	4.00 E.D
1893 (Harrington)	A29.5:B
Display of wind signals on	
Meteorological charts of	
Meteorological observations on, monthly, Sept., 1893–Dec., 1894.	
Periodic fluctuations of the, notes on (Abbe). 1898. p. 261	
Precipitation, normal, in region of (Henry). 1899. p. 151	A29.0:21
Rainfall and outflow of the (Abbe). 1898. pp. 164, 215	A 20. 0.20 A 90. 0. C 01 8
Section map of. 1892	A 20. 2.04
Storm waves on (Abbe). 1895. p. 341	A 20 6.99
Water level in the, fluctuation of (Guthrie). 1896. p. 420	A 20. 6.92
Water temperatures of (Conger). 1899. p. 352	A29.6:27
Waterspouts on, notes on (Abbe). 1898. p. 364	A29.6:26
Weather forecasts best calculated to aid maritime interests of;	A20.0.20
method of reaching those interested (Cox). 1899. p. 19	A 90 3 · 94
same (Conger). 1899. p. 20	
Wreck and casualty chart of. 1894.	A 29 2-G81 8
Wreck charts of	A 29 2-G81 T
Wrecks and casualties on, during 1895, 1896, 1897 (Conger). 1898.	A 29. 2:G81
Wrecks which occurred on, Dec. 17, 1885, to Nov. 15, 1893	A29.2:G81 <sup>5</sup>
Great Plains:	2120.2.002
Artesian and underflow investigation of, progress report on central	•
division (Gregory), 1891, p. 145	A15.2:P941
division (Gregory). 1891. p. 145	
Aughev). 1882	A1.8:19
Irrigation on (Newell). 1896. p. 167.	A1.10:896
Prairie dog of (Merriam). 1901. p. 257	A1.10:901
Underwaters of (Gregory). 1893. pt. 4, p. 3	A15.2:Ir7 2
Great Salt Lake:	
Basin of, description of. p. 559	A1.1:870
Rainfall and evaporation of, notes on 1874–1900 (Abbe), p. 68	A29.6:29
Water level of, relation of, to precipitation—	
1901 (Murdock). p. 22	A29.6:29
1901 (Gilbert). p. 23	
1901 (Mackie). p. 57	A29.6:29
Greathouse, Charles Howard:	
Agricultural libraries, development of. 1899. p. 491	A1.10:899
Agriculture Department, historical sketch of, its objects and	
present organization	A21.3:3
Rural mails, free delivery of. p. 513	A1.10:900
Vegetable garden. 1899. Yearbooks of Agriculture Department, index to. 1902	A1.9:94
Yearbooks of Agriculture Department, index to. 1902	A21.3:7
Green, Edward M. Horses in France. 1898. p. 39	A1.2:H78
Green, J. L. Tanana Valley, Alaska, notes on. p. 309	A10.12:901
Green, Seth. Fish culture, improvements and increase in. p. 248	A1.1:872
Green, Samuel B. Horticultural education in Minnesota. 1898.	11000
p. 84	A 10.3:49

	muel
	Classification no.
Green, W. J. Plants, variety testing, methods of work in. 1891. p. 49.	A10.5:3
Green clover worm (Chittenden). p. 45	A9.6:30
Green June beetle. See Fig-eater.	A 1 1-004
Green manuring and manures (Walfinger). p. 299	A1.1:804 ,
Green pea louse, destructive: Circular on. 1901	AO 5.49
For 1900, notes upon (Johnson). 1900. p. 55.	A0 8.98
Greene, Francis Vinton. Roads, address on. 1895. p. 34.	
Greenewald, (Mrs.) L. H. Weather observers, voluntary, how best	1122.0.11
to secure and retain services of. 1896. p. 42	A 29 3-18
Greenhouses:	2120.0.10
Health of plants in (Galloway). 1895. p. 247	A1.10:895
Heating, merits of steam and hot water. 1898. p. 12	A1.9:69
Irrigation for (Taft). 1895. p. 233	
Mealy bugs in, experiments with hydrocyanic-acid gas as means	
of exterminating (Hemenway). 1900. p. 69	A9.6:22
Subwatering in, tests of. 1898. p. 21	A1.9:78
Utilizing, in summer. 1901. p. 18	A1.9:133
Greenhouses and cold frames, hydrocyanic gas for fumigating, use	
of (Woods and Dorsett)	A9.5:37
Greensand marl as manure. 1867. p. 368	A27.9:5
Same, p. 30	A27.9:6
Greenwich noon, notes on (Abbe). 1898. p. 67	A29.6:26
Gregg, Thos. Fruit culture on the Mississippi rapids. 1869. p. 225.	A27.9:7
Gregory, John Walter:	
Artesian and underflow investigation, progress report on central	
division of Great Plains. 1891. p. 145	$A15.2:P94^{1}$
Artesian well investigation, field agents report for middle division.	
1890. p. 145	A15.2:Ar7
Underwaters of Great Plains; final report of mid-plains division	
of artesian and underflow investigation. 1893. pt. 4. p. 3	A15.2:Ir7 <sup>2</sup>
Grete, A. Switzerland, agricultural investigation in. 1896. p. 681.	A10.6:6
Griffiths, David:	
Forage conditions on northern border of Great Basin, being inves-	
tigations made during July and Aug., 1901, in region between	410 0 17
Winnemucca, Nev., and Ontario, Oreg. 1902.	A19.3:15
Range improvement in Arizona. 1901	A19.5:4 A41.000
Griffith, P. Merrill. Mexican cattle industry. p. 503.	A4.1:900
Grignon agricultural experiment station, investigations at (De-	A10.6:5
moussy). 1895. p. 3	A10.0:0
Grindley, H. S., and Sammis, J. L. Dietary studies at University of	
Illimain 1001 m 7	A10.3:91 -
Grindley, H. S., McCormack, H., and Porter, H. C. Meat, losses in	A10.0.01
cooking, experiments on, 1898–1900	A 10 3·102
Grinnell, J. B.:	1110.0.102
Cattle industry, report on. 1883. p. 232	A1.7:2
Cattle interests west of Mississippi River. p. 233	A4.1:884
Sheep on prairies. p. 300	A1.1:862
Sheep on prairies. p. 300	A29.6:27
Grosbeak, rose-breasted, an enemy of Colorado beetle or potato bug,	
special report on. 1889. p. 535	A1.1:888
Same, p. 535.  Grote, A. R. Insects injurious to the cotton plant in Georgia and	A5.1:888
Grote, A. R. Insects injurious to the cotton plant in Georgia and	
Florida. 1878. p. 351	A9.2:C82
Ground:	
Surface of, temperature of (Seeley). 1901. p. 501. Temperature of, observations at St. Ignatius College, Cleveland,	A29.6:29
Temperature of, observations at St. Ignatius College, Cleveland,	
Ohio (Briggs). 1902. p. 301	A29.6:30
Ground squirrels:	
Five new, of genus Tamias, descriptions of (Merriam). 1890. p. 17.	A5.5:4
New species of, from arid lands of the Southwest, description of	
(Merriam). 1889. p. 19 Three new, of Spermophilus spilosoma group, descriptions of	A5.5:2
Inree new, of Spermophilus spilosoma group, descriptions of	
(Merriam). 1890. p. 37.	A5.5:4
See also Squirrels.	

Index	Classification no.
Ground-water on Wisconsin Agricultural Experiment Station farm, observations and experiments on fluctuations in level and rate	•
of movement on (King). 1892	
Animals and animal products in Malta. p. 520	
ernor's message. p. 13.  Grub supposed to have traveled in human body. 1890. p. 238  See also White grubs.	A22.4:33 A9.7:2
Grunsky, Carl Ewald: Water, methods of applying, to land in central California. 1891. Pt. 1, p. 307	
Pt. 1, p. 307  Water appropriation from Kings River, California. 1901. p. 259.  Guadalupe Island, Oceanica. List of plants collected by Edward Pal-	A10.3:100
mer at, in 1889 (Vasey and Rose). 1890. p. 21	A6.5:1
Consumption of, in Great Britain, 1854-63. No. 6. p. 29. Natural, determination of citrate-soluble phosphoric acid in (Gladding). 1885. p. 16.	A27.9:3
See also Bats, excrement of.	
Guatemala. Coffee culture in. 1889. p. 175. Guava mealy-wing, report of. 1893. p. 314.	A27.9:27
Guaymas, Mexico. Plants collected by Edward Palmer in 1890 at, list of (Vasey and Rose). 1890. p. 87.	AC E 1
Guenon system of selecting cattle, value of (Blight). 1883. p. 233.	A6.5:1 A1.7:2
Guenther, Richard. Germany, horse and dog meat as food in. p. 520.	A4.1:900
Guernsey cattle, breed of (Harrison). 1869. p. 302*	A27.9:29
Immunity from tuberculosis in, use of attennuated bacillus tuber- culosis in producing (De Schweinitz). p. 318	A4.1:898
Immunity in, experiments on production of, with reference to	
hog cholera and swine plague bacteria (Smith and Moore).  1894. p. 41.	A4.3:6
Production of immunity in, from hog cholera by use of blood serum from immunified animals. p. 269	A4.1:898
Gulf coasts, are present [storm] warnings and displays by flag and	
lantern best that can be devised for? (Smith). 1899. p. 27 Same (McAdie). 1899. p. 29	A29.3:24 A29.3:24
Gulf States: Fig culture in (Earle). 1897. p. 23.	A 20 3:5
Forage plants and forage resources of (Tracy). 1898	A3.3:15
Fruits, tropical and semitropical of (Reasoner). p. 7	
p. 210. Gulf stream myth, report of (Watts). 1900. p. 393.	A29.6:28
Gulley, F. A.:	
Agricultural experimentation, establishment of official methods of, 1893. p. 147	
Animals, number of, to be used in feeding experiments. 1891.	
p. 94  Gum, production of, in fruit trees (Vasey). 1874. p. 227.	A27.9:12
Gum arabic. See Dextrine. Gun, James. Weather forecasting, long range, in Canada. 1899.	
p 149	A29.6:27
Gunning-Kjeldahl method and a modification applicable in presence of nitrates (Voorhees). 1892. p. 85	A7.3:35
Gurler, H. B. Swine breeding, experiments in. 1883. p. 155 Guthrie, Ossian. Water level, fluctuation of, in the Great Lakes.	A1.7:2
1896. p. 420	A29.6:23
(Cameron). 1901. p. 25 Same, of certain electrolytes (Cameron and Seidell). 1901. p. 46.	A26.3:18 A26.3:18
Gypsy-moth. See Gipsy-moth. Habana, Cuba. See Havana.	1220.0.10
# Der o welenstent Abie mano wereleen ammeen tentee	

Classification	no.

Hasianda Parla Prarto Rico metaprological observations at (Han-	CIEBRIHCECION M
Hacienda Perla, Puerto Rico, meteorological observations at (Hansard). 1898. p. 407.	A29.6:26
Hackett, Arthur E:	A20.0.20
Climate and crop service weekly bulletins, should remarks of cor-	
respondents be published? 1899. p. 107	A29.3:24
Climate of Missouri, notes on. 1899. p. 582	A29.6:27
Hailstorm in Missouri, severe. 1898. p. 409	A29.6:26
Haden, J. J. Smut or bunt, information on. 1865. p. 5. No. 2	A27.9:3
Hagemann, Oscar. Milch cows, metabolism of, investigations on.	
1899. p. 803, 903	A10.6:10
Hagen, W. A. Hessian fly not imported from Europe. 1883. App.	
p. 43	A8.1:3
Hague, Arnold. Forest needs of Yellowstone National Park, letter	4 10 O.A
relative to. 1888. p. 206	A13.3:2
Average frequency of days of, during 1893–1897 (De Riemer and	
A 1 1 \ PAZI	A29.6:26
Damage by, in spite of cannonading (Pernter). 1901. p. 117	A29.6:29
Destructive, frequency and extent of, note on (Abbe). 1900. p.	
293	A29.6:28
Fall, depth of, notes on (Abbe). 1897. p. 399	A29.6:25
Frequency of, in U.S., notes on (Abbe). 1900. p. 396	
Popular queries about, with answers (Kimball). 1901. p. 422	A29.6:29
Prevention of, by cannonading (Abbe). 1900. p. 251	
Remarkable, notes on (Abbe). 1894. p. 215	
Structure and formation of, notes on (Abbe). 1901. p. 73	
Hail and a rain gauge for its measurement (Abbe). 1898. p. 210	
Hail and its methods of formation (Abbe). 1900. p. 156	A29.0:28
Hail and thunderstorms in Oregon, notes on (Abbe). 1901. p. 262.	A29.0:29 A 90 B 99
Hail clouds, bombarding, notes on (Abbe). 1900. p. 542	A 20, 0.20 A 20, 8.20
Hail shooting, general report on, presented to 3d International	120.0.20
Meteorological Congress, Lyons (Plumandon). 1902. p. 35	A29.6:30
Same, notes on (Abbe). 1902. p. 35.	A29.6:30
Hailstones:	
Lumps of ice as (Abbe). 1894. p. 293	A29.6:22
Structure of, note on (Abbe). 1897. p. 352	A29.6:25
Hailstorm:	
Bombardment of, notes on (Abbe). 1901. p. 176.	
Cloud phenomena attending (Very). 1894. p. 292.	
St. Lawrence River, notes on (Abbe). 1901. p. 506	A29.6:29
Severe— at St. Louis, Mo. 1902. p. 487	4 90 B 20
in Missouri (Hackett). 1898. p. 409.	A 29.0.30 A 29.6.26
Haines, Warfleet. Leeds, England, cost of hauling farm products	
over wagon roads at. p. 2	A22.4:27
Hair balls. See Crimson clover hair balls.	
Hairy caterpillars, destruction of, by birds (Forbush). 1899. p. 85.	A9.6:20
Hairy vetch. See Vetch.	
Haiti, weather bureau service in, note on (Abbe). 1900. p. 249	A29.6:28
Hale, Edwin M. Ilex cassine, aboriginal North American tea, its	
history, distribution, and use among native North American	109.11
Indians. 1891	
Same, reprinted	
Hall, C. W. Technical education. 1894. p. 67	A10.3:20
Hall, D. M. See, for reports as Chief, 1894, Property and Stationery	222010120
Division, Agriculture Department.	
Hall, Frank H.:	
Agriculture and agricultural science, some books on, published	
1893–96	A10.4:31
See also as joint author, Jordan, Whitman Howard—True, Alfred	
Charles.	
Hall, Maxwell:	
Climatological data for Jamaica. 1901. pp. 214, 253, 304, 352, 407,	190 R.90
497, 595 same. 1902. p. 69	A29.6:29 A29.6:30
PG1117. 1704. U. U7	$A \Sigma M U \cdot U \cdot U U$

	Classification no
Hall, Maxwell—Continued	
Jamaica weather bureau service. 1898. p. 303	A29.6:26
p. 503. West Indies, climate of. 1896. p. 589.	A29.6:29
West Indies, climate of. 1896. p. 589	A29.3:11 <sup>8</sup>
Hall, Ruth. House plants, cultivation of. p. 366	A1.1:863
Hall, William H. Catalpa, hardy, in commercial plantations. 1902. Hall, William L.:	
Forest extension in Middle West. 1900. p. 145	A1.10:900
Timber resources of Nebraska. 1901. p. 207.	A1.10:901
Tree planting on rural school grounds. 1901	
Farmers' families, health of. p. 453	A1.1:862
Farmers' houses, places and plans for. p. 313	
Apparatus and methods of analysis employed at. 1895. p. 457	A10.6:5
Apparatus and methods of analysis employed at. 1895. p. 457. Description of. 1895. p. 363.  Hallett, F. F. Seed, selection and planting of. 1874. p. 381	A10.6:5
Halos:	
Detroit, Mich., May, 1900 (Hooper). p. 202	
Hevelius, notes on (Kimball). 1901. p. 566	A29.6:29
Lunar (Finney). 1894. p. 76.	A29.6:22
Observation of phenomena (Schipps). 1897. p. 294.	A29.6:25
same (Abbe). 1897. p. 305 Parhelic circles, and contact circles, notes on (Kimball). 1902.	
p. 317	A29.6:30
Solar, note on (Abbe). 1899. p. 59.	A29.6:27
Halstead, Marshal. Eggs, poultry, and milk in Great Britain. p. 508. Halsted, Byron David:	A4.1:900
Cranberry scald and cranberry gall fungus, treatment of. 1891.	100 E.C
p. 18 Fruit decays, study of. 1893. p. 91	A28.5:6
Fungi, field observations with. 1894. p. 93	A10.3.10 A10.3.20
Fungus diseases, relations of climate and rainfall to prevalence of.	1110.0.20
1899. p. 126	A10.3:65
Peronosporeæ, economic, for 1889 in New Jersey, some notes upon. 1889. p. 201	A28.5:5
Peronosporeæ and rainfall, report on. 1889. p. 6	A28.5:5
Plants, varieties of, what our experiment stations have done in	
originating, by crossing, selecting, etc. 1901. p. 143	A10.3:99
Solandi [sun] printing. 1894. p. 93.	A10.3:20
Sphærotheca, another, upon phytoptus distortions. 1889. p. 134.	A28.5:5
Sphærotheca phytoptophila, notes upon. 1889. p. 85	
Uromyces, an interesting. 1889. p. 11	A28.5:5
Halsted, Byron David, and Fairchild, David Grandison. Sweet-	
potato black rot, report on. 1891. p. 1	A28.5:7
Agricultural exhibition at, 1863 (Needham). p. 19	A1.1:863
American dried apples in, 1894 (Robertson). p. 12	
Butter and cheese markets in (Ashby). p. 223	
Egg trade in (Ashby). p. 345	A4.1:899
Market for American products in. 1897.	A12.4:14
Hamburg International Exhibition (live stock), 1883:  Advance notice on. No. 53. p. 28	A27.9:20
Report of (Sanders). p. 371	A4.1:884
same (Huidekoper). p. 386	A4.1:884
same (Sanders). 1884. p. 181	A4.2:An5
same (Huidekóper). 1884. p. 199	A4.2:An5
Hamburg International Horticultural Exhibition, proposed, Sept.,	4.05.0.5
1869, note on. p. 63	
Agricultural education, address on. 1896. p. 48	A10.3:41
Entomological Commission, U. S., fifth report of, comments on.	10.7.1
1891. p. 129.  Farmers' institute as factor in creating desire for agricultural	A9.7:4
education. 1902. p. 68.	A10.3:120
•	-

	Classification no.
Hamilton, John—Continued	
Pennsylvania's road system. 1901. p. 25	A22.3:21
Hamilton County, N. Y. See Hosmer, Ralph S., and Bruce, Eugene S. Hamilton George H. Address of before convention of National	
Hamlin, George H. Address of, before convention of National League for Good Roads, Washington, 1893. p. 47	A10 3.14
Hammon, William H.:	
Frost, injury from, and methods of protection. 1896	A29.2:F92
same, revised. 1899	A29.3:23
. Kites, experiments with, at San Francisco, Cal. 1896. p. 288	A29.6:24
Tamalpais, Mount, meteorological station, report on operation of,	
for September, 1897. p. 397.	A29.6:25
Weather Bureau instruments, report on location and elevation of,	
at Mount Tamalpais, Cal. 1897. p. 494	A29.6:25
Weather service on Pacific coast, possibilities of; value of Mount	
Tamalpais observations. 1899. p. 56.	A29.3:24
Hammon, William H., short biography of (Abbe). 1899. p. 102.	A29.6:27
Hammon, William H., and Duenckel, F. W. Temperatures, mini-	
mum, abstract of comparison of, recorded at U.S. Weather	
Bureau and Forest Park meteorological observatories, St.	
Louis, Mo., 1891. p. 12	A29.6:30
Hammond, Harry:	
Cotton—	
culture of. 1896. p. 225. handling and uses of. 1896. p. 351 Hampton Beach, N. H., tornado at, July 4, 1898 (Sweetland).	A10.3:33
handling and uses of. 1896. p. 351	A10.3:33
Hampton Beach, N. H., tornado at, July 4, 1898 (Sweetland).	
p. 308	A29.6:26
Hams:	
American, in Germany (Barnes). p. 519 Insects affecting (Howard). 1896. p. 100	A4.1:898
Insects affecting (Howard). 1896. p. 100	A9.6:4
Handy, Robert Breckenridge:	
Asparagus culture. 1897	A1.9:61
Cotton, history and general statistics of. 1896. p. 17	A10.3:33
Peanuts, culture and uses. 1895	A1.9:25
Peanuts, culture and uses. 1895. Handy, Robert Breckenridge, and Cannon, Minna A. Agriculture	
Department publications, from 1840 to June, 1901, list by titles.	
	A21.3:6
Hanford area, California, soil survey of (Lapham and Heileman).	
p. 447	$A26.5:901^{1}$
Hann, Julius:	
Atmosphere, upper, study of, from observations on mountain sta-	
tions. 1896. p. 754  Austria-Hungary, climate of, references to sources of informa-	$A29.3:11^{3}$
Austria-Hungary, climate of, references to sources of informa-	
tion relative to. 1896. p. 657.	$A29.3:11^{8}$
Meteorological stations and publication of results of observations.	
1894. p. 1  Meteorology, text-book of, note on (Abbe). 1901. p. 74	A29.3:11 <sup>1</sup>
Meteorology, text-book of, note on (Abbe). 1901. p. 74	A29.6:29
same (Bigelow). 1902. p. 298.  Rainfall, increase of, with altitude above sea level. 1902. pp.	A29.6:30
	100 0 00
218, 227	A29.6:30
Hann's handbook of climatology, note on (Harrington). 1898.	A 000 0 00
p. 353	A29.6:26
Hanna, Marcus Alonzo. Southern development. 1902. p. 53	A22.3:25
Hanover, Germany. Cost of hauling farm products over wagon	A.00. L.0₩
roads at (Crane). p. 6.	A22.4:27
Hanrick, E. G. Rainfall in Texas, 1881-93. p. 174.	A29.6:22
Hansard, Arthur C. Meteorological observations at Hacienda Perla, Puerto Rico. 1898. p. 407 Hansen, N. E. Fruits, breeding of, notes on. 1893. p. 92.	1 00 <i>0.00</i>
Unger N F Fruits broading of notes on 1902 n 02	A28.0:20   A10.2:18
riansen, N. E. Fruits, breeding of, notes on. 1885. p. 82	A10.5:10
Harbaugh, W. H.:	
Cattle— heart and blood ressels of diseases of p. 77	14 9.C902
heart and blood vessels of, diseases of. p. 77	AT.4.C.20°
Horea regrigatory arrang of diseases of p. 97	A19.U28
Geography disease known as among homes in Virginia and	A4.4.D18
"Staggers," disease known as, among horses in Virginia and North Carolina. p. 209	111.998
North Carolina. p. 209  Hardin, M. B. Cotton-seed meal, metaphosphoric and pyrophos-	A.T.1.000 
phoric acids in, occurrence of. 1892. p. 50	A7.3:35
parous action stay occurations of a comment of the	,

	Classification no.
Harding, Charles. Great Britain, climate of British Islands. 1896.	A29.3:11 <sup>3</sup>
Hardinge, R. M. New Mexico, water supply of, for season of 1900,	A29.6:28.
as depending on snowfall. p. 496.  Hardwoods, southern, working plan for, and its results (Foley).	
1901. p. 471 Hardy catalpa. See Catalpa.	A1.10:901
Harford County, Maryland. Soil survey of (Smith and Martin).	100 5.0011
p. 211 Hargitt, C. W. Cankerworm, notes upon. 1890. p. 8 Harkness, William. Stars, shooting, hints to observers of. 1899.	A26.5:901 <sup>1</sup> A9.7:3
p. 9	A29.6:27
1895 Harlow, G. A. Experiment Stations Office and agricultural experi-	A9.5:10
ment stations, list of publications of, 1888-99. 1900. p. 508 Harmon, John H., short biography of (Williams). 1899. p. 107	A10.3:80 A29.6:27
Harnden, Enos S. See, for reports as special agent on purchase and	
distribution of seeds, 1894–97  Harpiphorus maculatus, report on (Harrington). 1890. p. 227	A24.5: A9.7:2
Harpoot, Turkey in Asia, climate of, 1898–1900 (Huntington). p. 250	A29.6:29
Harrington, Mark Walrod: Climate and meteorology of Death Valley, Cal., notes on. 1892	A29.3:1
Climate of Puerto Rico. 1898. p. 437	A29.6:26
Forest meteorological observations, review of, a study preliminary to discussion of relation of forests to climate. 1893. p. 23	A13.3:7
Fruits, vegetables, and other food products, protection of, from injury by heat or cold during transportation. 1894	A29.2:F94
Great Lakes, currents of, as deduced from movements of bottle papers, during seasons of 1892 and 1893	A29.5:B
Hann's handbook of climatology, note on. 1898. p. 353	A29.6:26
agricultural colleges, and their relations to Weather Bureau.	4100
1892. p. 42	A10.3:7
Meteorology, what it is doing for the farmer. p. 117	A1.10:894
Rainfall and charts of rainfall. 1902. p. 236	<b>A2</b> 9.6:30
Rainfall and snow of U. S., compiled to end of 1891, etc	
See also, for reports as Chief, Weather Bureau, Agriculture De-	
partment, 1891-1894 Harrington, W. Hague. Harpiphorus maculatus, report on. 1890.	A29.1:
p. 227 Harris, Abram Winegardner:	A9.7:2
Address of, as president of Association of American Agricultural Colleges and Experiment Stations, at 15th annual convention.	
1901. p. 41	A10.3:115
Agricultural experiment stations— at World's Columbian Exposition, report on. 1891. p. 43	
collective exhibit of, at Paris Exposition, 1900, committee report on preparation and care of. 1898. p. 43	A10.3:49
cooperation with U.S. Weather Bureau, report of committee on. 1893. p. 106.	A10.3:16
publications of, uniformity of, report on. 1894. p. 30	A10.3:20
p. 100 Horticulturists of agricultural experiment stations, report of meet-	A10.3:65
ing at Columbus, Ohio, June 13, 14, 1889	A10.3:3
riculture Department, 1891 and 1892.  See also, as editor of proceedings, Agricultural Colleges and Expe-	A10.1:
riment Stations, American, Association of.	111.000
Harris, Joseph. Stall-feeding cattle and sheep. p. 317	Ì
Ocean tides, principal, partial explanation of some of. 1900. p. 103. Oscillation period of Lake Erie, note on. 1902. p. 312	A29.6:28 A29.6:30

	Index
	Classification no.
Harris, William Torrey. Agriculture, teaching of. 1895. p. 43 Harrison, Edmund G.:	A10.3:24
	A22.4:30
Macadam roads, repairs of. 1898 Stone roads in New Jersey. 1895. p. 23	A22.3:17
Harrison, Thomas L. Guernsey cattle, breed of. 1869. p. 302*	A27.9:7
Hart, C. A. Wireworms, life history of. 1891. p. 246	A9.7.3
Hartford, Conn., Connecticut shade-grown tobacco to be sold at auction at, May 1, 1902, catalogue of. 1902	A26.2:T55
Hartig, Dr. White fir, disease of. 1889. p. 164 Hartley, Charles P. Pollination, premature, injurious effects of,	A28.5:5
with general notes on artificial pollination and setting of fruit	
without pollination. 1902	A19.3:22
ing soil deficiencies. 1901. p. 73	17 3:69
Ne also, as joint author, Wheeler, Homer Jav.	
Harvard and Yale boat crews, dietary studies of (Atwater and	
Bryant). 1900 Harvard University, meteorological stations of, note on (Abbe):	A10.3:75
1897. p. 540	A29.6:25
1897. p. 540 1901. p. 69	A29.6:29
Harvesting machinery, trials of. 1870. p. 227 Harwi, H. J. Live-stock industry, condition of, of Nebraska. p.	A27.9:8
382	A4.1:889-90
Harwood, P. M. Agriculture, what shall the professor of, teach?	440.040
1893. p. 159  Harz. C. O. Spores of Hymenomycetes, method for preserving.	A10.3:16
1889. p. 163	A28.5:5
Hassall, Albert:	A 4 7 600
Chicken tick, note on. p. 496	A4.1:899 A4.4:9
Ducks, animal parasites of, checklist of. 1896	A4.4:13
Flukes and tapeworms of cattle, sheep, and swine, bibliography	
of. 1898. p. 145. Geese, animal parasites of, checklist of. 1896	A4.3:19 A4.4:14
Parasites of cattle, sheep, and swine, compendium of, arranged	
according to their hosts. 1898. p. 137	A4.3:19
Pigeons, animal parasites of, checklist of. 1896	A4.4:10 A4.1:901
same, p. 131	A4.3:42
Tapeworms of poultry, bibliography of. 1896. p. 81	A4.3:12
Trichinosis in Germany, bibliography of. 1901. p. 193	A4.3:30 A4.4:12
Se also, as joint author, Stiles, Charles Wardell.	
Hasse, Adelaide Rosalia. List of publications of Agriculture De-	117 9.0
partment, from 1841 to June 30, 1895	A17.0;8
Hauk, James W. See, as joint author, McLean, L.	
Hauling. See Farm products.  Haupt, C. M. Highways of commerce. 1901. p. 56	1 90 2.91
Haupt, Lewis Muhlenberg. Railroads, relation of common roads to.	A22.0.21
1902. p. 61	
Hauser, I. L. Wheat culture in India. p. 569  Hautreux, A. North Atlantic currents and surface temperatures.	A1.1:885
1894. p. 192	$A29.3:11^{-1}$
Havana, Cuba:	
Climatology of, monthly notes on— 1898 (Delmonte). p. 152	429 6.28
AprJuly, SeptOct., 1901 (Stockman)	$\Lambda29.6:29$
Nov. 1901 (Hayes)	A29.6:29
Dec., 1901, FebApr., 1902 (Stockman)	- A29.6: - A27.9:13
Imports of 1865–74. p. 51.  Meteorological observations at. notes on (Abbe). 1898. pp. 60, 104.	$\Lambda 29.6:26$
Havens, Felix G. Insect control in Riverside, California, 1900. p. 83.	$\mathbf{A9.6:22}$
Havre, France, cost of hauling farm products over wagon roads at (Chancellor). p. 3	A22.4:27
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\*By a misprint this page number appears twice.

	Classification no.
Havre, Montana:	
Chinook at, notes on (Abbe). 1898. p. 568	A29.6:26
Leonids at (Ling). 1901. p. 509 Weather type: at (Ling). 1898. p. 411	A 29.0:29 A 90 R-98
Hawaii:	A20.0.20
Agricultural investigations in (Evans). 1901. p. 503	A1.10:901
Agricultural resources and capabilities of (Stubbs). 1901	A10.3:95
Agriculture in, etc. (Maxwell). 1898. p. 563	A1.10:898
Central American coffee disease, danger of introducing into	A 90 4.14
(Swingle). 1898 Chickens and their diseases in (Sedgwick). 1901	A 10 9·1
Climatological data, monthly, May, 1901-Oct., 1902 (Lyons)	A29.6:
Commerce of, 1887 to 1897	A12.4:18
Commerce of, 1887 to 1897.  Farmers' institute work accomplished in (True). 1902. p. 33	A10.3:120
Irrigation in, report on (Maxwell). 1900	A 10.3:90
Meteorology in (Kimball). 1902. p. 364 Rain in, notes on (Abbe). 1898. p. 116	A29.0:30 490 6:96
Reptiles in, order preventing importation. 1902	A5.4:36
Soils of, estimation of lime, potash, and phosphoric acid in	
(Maxwell). 1898. p. 63 Standard of time, notes on (Abbe). 1900. p. 207	A7.3:56
Standard of time, notes on (Abbe). 1900. p. 207	A29.6:28
Sugar of, importation of, possible influence on beet-sugar pro-	4.1.4.7
duction in U.S. 1898 Volcanic eruptions in, report on (Lyons)—	A1.4:7
1897. p. 144	A29.6:27
1899. p. 298	A29.6:27
Weather of, for Feb., 1901, notes on (Abbe). p. 174	A29.6:29
See also Honolulu.	
Hawaii Agricultural Experiment Station: Annual report, for 1901 (Smith). 1902. p. 361	10 11:001
Bulletins of	
Hawes, John B. Flax culture in Austro-Hungary. 1892. p. 55	A11.5:4
Hawkins, Barry C.:	
Appalachians, southern, area of, heavy rainfall in. 1897. p. 442.	A29.6:25
Blue Ridge, southern, and Piedmont region, northwest gales of. 1899. p. 13	A29.6:27
1899. p. 13 Rainfall, heavy, region of. 1895. p. 294	A 29.6:23
Seismic noises in North Carolina and Georgia. 1897. p. 393	A29.6:25
Hawks, A. McL. Fog, utilization of, report on. 1899. p. 101	A29.6:27
Hawks, Emma Beatrice. Poultry, bibliography of. 1897	A17.3:18
Hawks and owls:	
Erroneous ideas concerning— 1895. p. 590	A1 10:895
1896. p. 628	A1.10:896
1896. p. 628 Food of. p. 402	A1.1:887
same, p. 402	A5.1:887
Related to the farmer (Fisher). 1894. p. 215	
Relation to agriculture in U.S. (Fisher). 1893	A9.313 A27 9.11
Hay, Robert:	1127.0.11
Artesian and underflow investigation between 97th meridian of	
longitude and foothills of Rocky Mountains, final geological	
	A15.2:Ir7 *
Artesian and underflow investigation, progress report. 1891. p. 137	A15.2:P94 1
Artesian wells, investigation, geologist's report. 1890. p. 37	
Hay:	
Amount and value of, reckoning of. 1898. p. 669	A1.10:898
Bermuda grass for (Ransom). p. 87	A1.1:883
same. No. 61. p. 27	AZ1.9:Z] A97 1.
Great Britain. 1894. p. 145	A27.9:33:
New York market 1867-70. p. 23	A27.9:9
New York market 1867-70. p. 23 Salt and fresh water marsh, report on (Allen). p. 296.	A1.1:876
Salt-marsh, abundant growth and feeding value of. 1898. p. 16.	A1.9:84
Spontaneous combustion of (Langworthy). 1899. p. 26	A1.9:105
Dee and Amana may — Orops, principal — Maish may.	

	Classification no.
Hay-making. 1864. No. 4. p. 6.	A27.9:3
Hav-worm. See Clover hav-worm.	
Hayes, John L. Sheep husbandry in South. 1879. p. 63	A1.2:Sh3
Hayes, Montrose W.:	
Climatology of Havana, Cuba, note on, Nov. 1901. p. 491	A29.6:29
Industries of Cuba and other islands of West Indies, value of cli-	
mate and crop and storm warning services of Weather Bureau	
to. 1902. p. 58.	A29.3:31
to. 1902. p. 58.  Hayes, S. H. T. Fertilizers, mixed, organic nitrogen in, availability	
01. 1893. D. 112	A7.3:47
Hays, M. A. Roads, good, relation of, to industrial development.	1 00 0 00
1902. p. 78	A22.3:23
Hays, Willet M.:	110 9.40
Agricultural colleges, preparatory work in. 1898. p. 65	A10.3:48 A10.2:18
Agriculture, methods of instruction in teaching. 1896. p. 37	A10.3.10 A10.3.10
Grass gardens, methods and purposes. 1893. p. 130	A10.3.16
Plant and animal breeding, progress in. 1901. p. 217.	A1.10:901
Plant breeding. 1901	A28.3:29
Plant breeding. 1901. Plat experimenting, methods of. 1896. p. 84	A10.3:30
Havti. See Port au Prince.	
Havwood, J. K.:	
Arsenical insecticides, report on. 1902. p. 96	A7.3:67
Insecticides and fungicides— chemical composition and effectiveness of certain prepara- tions. 1901	
same. 1902	
methods for chemical analysis of. 1902	A7.4:10
Soluble arsenic in arsenical insecticides. 1902. p. 51	A9.6:37
Hazard, Willis P. Channel Islands, the people and their cattle.	
1882. p. 77. Hazen, A. J. Meteor, bright, report on. 1897. p. 484	A1.8:22 A90 R.95
Hazen, Henry Allen:	A28.0.20
Atmospheric pressure—	
high and low, monthly report on, June, Nov., 1895-Nov., 1899.	A29.6:
low, effect of, in determining weather conditions in upper	
Mississippi Valley. 1896. p. 89.	A29.6:23
Balloon ascension, report of. p. 517	A29.1:891 <sup>8</sup>
Barometer readings, reduction of, to sea level. 1894. p. 538	A29.6:22
Barometric troughs of plateau region, report on. 1895. p. 207	A29.6:23
Chicago, climate of. 1893.	A29.3:10
Climate of United States. 1896. p. 585.	A29.3:11 8
Cold spell of Nov., 1896, in Montana and adjoining States. p. 414.	
Forests and rainfall, report on. 1897. p. 395	A29.6:25
Heated term from July 28 to August 17, 1896. p. 289.	
Hygrometric observations, utility of. 1899. p. 164	A 29 1 898
Moisture in United States, distribution of. 1899. p. 327	A 29. 1:898
Moon and aurora, report on. 1898. p. 108	A29.6:26
Rainfall, extraordinary, in Texas. 1899. p. 249	A29.6:27
Signals, Weather Bureau. 1892. p. 39	A29.3:7
Storms—	
local, in United States during 1890, 1891 and 1892. p. 505	
Texas, study of. 1895. p. 54	A29.6:23
violent, in United States for 1894. p. 283	A29.1:894
violent, of March 25, 1895. p. 90	AZ9.0:Z1
violent local, of Sept. 21, 1894. p. 369	A 90 R 94
Washington, Mount, fluctuations of temperature and pressure at	
base and summit of, 1871-86. pp. 171, 199, 224, 250	
Weather Bureau instrument shelter. 1893. p. 29.	A29.3:7
Weather forecasts, long-range; can they be made with sufficient	1
precision to be of general utility? 1899. p. 43	A29.3:24
precision to be of general utility? 1899. p. 43  West Indian storms, relative intensity of. 1894. p. 333	A29.6:21
wind-rush at Washington, D. C., Sept. 29, 1896. p. 322	A29.0:24
Hazen, Henry Allen, short biography of (Abbe). 1900. p. 14	A29.6:28

	Classification ac
Hazen, J. S.:	400 6.0*
Cold waves in Southwest. 1899. p. 291	A 29.0:21 A 90 6.99
Storms, local, at Springfield, Mo., 1900. p. 20 1	A 20 6.28
Health:	A20.0.20
Climate and	A29.8:
Farmers' families (Hall). p. 453.	A1.1:862
How insects affect, in rural districts (Howard). 1902	A1.9:155
Peoples'—	
1894. p. 201	
1895. p. 140	
1896. p. 6. No. 136	A27.9:34
Public—	1.00.0.00
and meteorology, relation between (Phillips). 1895. p. 171 relations of bovine tuberculosis to (Salmon). 1901	A29.6:23 A4.3:33
State board of, experiment station veterinarian as member of	14.0.00
(Reynolds). 1898. p. 14.	A4.3.22
Heaps, I. G. Road situation in Iowa. 1901. p. 64	A 22.3:21
Hearn, W. Edward. See, as joint author, Coffey, George N.	
Heart, diseases of:	
('attle (Harbaugh). p. 77	$A4.2:C29^{2}$
Horses (Trumbower). p. 219	A4.2:H78
Heat:	
Drought, and insect life (Murtfeldt). 1902. p. 97.	A9.6:31
Our killing, report on (Abbot). 1901. p. 371	A29.6:29
Radiant— for prevention of frost, notes on (Abbe). 1899. p. 156	1.90 8.97
measurement of, note on (Abbe). 1900. p. 108	A28.0.27 A20 6.98
See also Warm waves.	11 60. U. 60
Heat equivalent of nutrients of food (Stohmann). 1896. p. 590	A10.6:6
Heat radiation of stars, note on (Abbe), 1899, p. 472	A29.6:27
Heat radiation of stars, note on (Abbe), 1899, p. 472	A29.6:24
Heath, H. A.:	
Kansas, animal industry of condition of p. 405	A4.1:889-90
Sheep industry, condition of, west of Mississippi River. p. 247	A4.1:889-90
Heath, H. A., and Minto, John. Sheep industry west of Mississippi River. 1892. (Chapters 1-4, by Heath; chapter 5, by Minto.)	
*O1	1 4 0 11 12
Heath, Russell. English walnuts, culture of. 1892. p. 133	A1.8:20
Heating value of corn, calorimetric determination of (Richards).	•
1898. p. 95	A10.3:49
Hébert, A. Farm manure, report on. 1895. p. 141	A10.6:5
Hedges. See Osage hedges — Osage orange.	
Hedrick, Ellen A. Irrigation and land drainage, list of references	1 1 T O . 41
to publications relating to. 1902	A17.3:41 A1 1.929
Hehner method. See Van Slyke, Lucius Lincoln.	.11.1.002
Heifer beef. See Beef.	
Heiges, Samuel B. See, for reports as Pomologist, Pomology Divi-	
sion, Agriculture Department, 1894–1896	A20.1:
Heileman, W. H. See, as joint author, Lapham, Macy H.	
Heileman, W. H., and Mesmer, Louis. Soil survey of Lake Charles	4.3.4 # 4.6# 1
area, Louisiana p. 621 Helena, Mont. Fungi of, notes on (Kelsey). 1889. p. 80	A26.5:901
Heliothia ampiage St. Rollmonn	A28.5:5
Heliothis armigera. See Bollworm. Hellmann, G.:	
Meteorology and terrestrial magnetism in 15th, 16th, and 17th	
centuries, contribution to bibliography of. 1895. p. 352	A29.3:11*
Rainfall and charts of rainfall. 1902. p. 236	A29.6:30
Rainfall and charts of rainfall. 1902. p. 236.  Hellriegel, H. Bernberg Agricultural Experiment Station, sand cul-	
ture at, methods of. 1895. pp. 749, 835	A10.6:5
Hemenway, H. D. Hydrocyanic-acid gas, experiments with, as	
means of exterminating mealy bugs and other insect pests in	10 g.oo
greenhouses. 1900. p. 69	Av.0:22
Hemiptera: See Heteroptera.  Hemipterous insects, record of some experiments relating to effect of	
puncture of some, upon shrubs, fruit, and grains, 1886 (Web-	
ster). 1887. p. 54	A9.3:13
•	

	('lassification no.
"Hemlock reds," report on experiments with (Hurty). 1894.	
"Hemlock reds," report on experiments with (Hurty). 1894. p. 206.	A7.3:43
Hemp: Crop of. 1885. p. 75	A 97 Q-94
Culture of—	A21.0.21
1863 (Bradford). p. 91 1895 (Dodge). p. 215	A1.1:863
1895 (Dodge). p. 215	A1.10:895
1896 (Dodge)	A11.5:8
Flax and, in Russia. 1869. p. 237	
Growth of, in Italy, special consular report on (Gardini). 1897.	
p. 15. See also Fibers — Flax — Manila hemp plantain — Sisal hemp.	A11.5:11
See also Fibers — Flax — Manila hemp plantain — Sisal hemp.	107 0.1
Hemp industry in France (Dodge). 1892. p. 27	A27.6.1 A11.5:1
Same, 2d edition. p. 27.  Hemp industry in U. S. (Dodge). 1892. p. 64.	A27.8:1
Same, 2d edition. p. 64	A11.5:1
Same. 1901 (Dewey). p. 541	A1.10:901
Hemphill, J. C. Climate, soil, and agricultural capabilities of South   Carolina and Georgia. 1882.	A1.6:47
Hen flea (Sarcopsylla gallinacea), occurrence of, in Florida (Pack-	
ard). 1894. p. 23	
Henderson, L. F. Plants, two new species of, from northwestern	
United States. 1899. p. 201	A6.5:5
Henderson, Peter:	A1 1.004
Alfalfa, cultivation of. p. 566	A1.1:865
Seed, maturing, localities best suited for. p. 572.	A1.1:878
Hennepin County, Minn., gravel roads in, method of construction	
and cost of (Cooley). 1901. p. 96	$\lambda 22.3:21$
Henry, Alfred Judson: Address as chairman, section of records and reports, before second	
convention of Weather Bureau officials held at Milwaukee,	
Wis., Aug. 27, 29, 1901. p. 168	A29.3:31
Alaska, climate of—	
1897. p. 248 1899. p. 50	A29.6:25
American Forestry Association, summer meeting of. 1962.	A10.3:62
p 401	A29.6:30
p. 401	A1.2:Ap42
Atmospheric disturbances, local. 1898. p. 539	A29.6:26
Climate, statistics of, 1896, report of. p. 277	A29.1:897
Climatic conditions, general— 1898. p. 595	A 90 B 9B
1899. p. 579	A29.6:27
1900. p. 587	A29.6:28
1901. p. 592	A29.6:29
Climatology, monthly notes on, OctDec., 1897	A29.6:25
Cloud photography, report of. 1895. p. 169	A 29.0:20 A 99.6:97
Cold Friday, date of. p. 545	A29.6:27
Date palm, climatic data bearing upon culture of. 1898. p. 160.	A29.6:26
Flint Earl, short biography of 1901, p. 67	A29.6:29
Humidity, relative, inside and outside of buildings. 1896. p. 456. Lake levels, variations of, and atmospheric precipitation. 1899	A29.6:24
Lake levels and wind phenomena. 1900. p. 203	A29.2:L10 A29.6:28
Lightning—	1120.0.20
loss of life and property by 1890–98. p. 45	A29.3:26
loss of life by, in U.S. 1899. p. 100  same. 1900 loss of property by, in U.S. 1899. p. 431	A29.6:28
long of property: by: in 1' S 1900 m 491	A29.3:30 A90 (0.02
Meteorological observations at Eagle, Alaska. 1900. p. 390	A25.0.20 A20.6:28
Meteorological tables, monthly, June, 1895–Apr., 1902	Λ29.6;
Meteorological work in Alaska. 1898. p. 154.	A29.6:26
New England, southern, and other localities, relative humidity	
of, etc. 1896.  Photographing lightning by daylight, report on. 1895. p. 379	759'9:1A 759'9:1A
* nongrahmis namme no gantinit telentron 1099 by 919.	

inaex	Classification no.
Henry, Alfred Judson—Continued · Precipitation—	
average annual, in U. S., 1871-1901. p. 207	
excessive, in U. S. 1897. p. 13	A29.6:25
normal, in region of Great Lakes. 1899. p. 151	A29.6:21
Rain gages, remarks on. 1901. p. 500	
Rainfall—	41.10.007
crop season. 1897. p. 607. Masaya and Granada, Nicaragua. 1898. pp. 162, 305.	A1.10:897 A29 6:26
Nicaragua, 1876–93. p. 305.	A29.6:26
United States. 1897. p. 317.	A29.1:897
same, with annual, seasonal, and other charts.	A29.5:D
Rainfall and charts of rainfall. 1902. p. 241	
St. Lawrence Island, climate of, 1894–99. p. 457	
Sunshine and snowfall, normal annual. 1898. p. 108	A29.6:26
Sunshine at southern California agricultural experiment farm,	
near Pomona, Cal. 1896. p. 237	A29.6:24
Temperatures, normal, by decades, for 8 a. m. and 8 p. m., 75th	1000000
meridian time. 1902. p. 600	A29.6:29
p. 99 Thermometers, maximum and minimum, should not temperature	A29.6:28
forecasts be verified by readings of? 1902. p. 134	A 90 2 21
Thunderstorm of Sept. 17–18, 1895, report on. p. 535	A29.6:26
Thunderstorms, progressive movement of. 1896. p. 331	A29.6:24
Thunderstorms on Aug. 2, 1899, report on. p. 359	A29.6:27
Tornado photographe, spurious, report on. 1899. p. 203	
Tornadoes, 1889–1896, report of. 1896. p. xxiii	A29.1:896 A 90.6:24
Waves, lake-level pressure, sudden oscillations in, 1899. p. 305.	A29.6:24 A29.6:27
Weather Bureau office, removal of, in New York City. 1898.	112010.21
A P P	A29.6:26
Weather forecasts, amplification of. 1900. p. 107.	A1.10:900
Weather, hot, of August, 1900. p. 333	A29.6:28
Weather of the month, Jan. 1898-Apr., 1902.	A29.6:
Weather of 1897, report of. 1899. p. 261	A29.1:898
West India hurricane of Sept., 1896, notes concerning. p. 368	A29.6:24
Wind velocity and fluctuations of water level on Lake Erie. 1902.	
Winters. Are our winters changing? 1898. p. 540	A29.6:26
Address of, as president of Association of American Agricultural	
Colleges and Experiment Stations, at 7th annual convention.	
1893. p. 38.	A10.3:20
Animals, physical conditions surrounding, in experimental feed-	4100=
ing, especially as relative to stalls and mangers. 1891. p. 92. Cattle, feeding and management of. p. 439	A10.3:7
Entomology division, Agriculture Department, Pacific coast work	
of. 1889. p. 141.	
Sec also, as collaborator, Wiley, Harvey Washington.	
Hens, laying, number of, that may be profitably kept in one pen	11 0.224
(Langworthy). 1900. p. 18	A1.8:114
Hens' eggs, food value of. 1899. p. 24	A1.9:87
See also Eggs.	
Henshaw, Samuel:	
Economic entomology, American, bibliography of more important contributions to—	
	A9.2:R471-8
Pt. 1 (Walsh). 1889. p. 1 Pt. 2 (Walsh and Riley). 1889. p. 51	A9.2:B47 1-8
Pt. 3 (Riley). 1889. p. 97. Pt. 4. Government and State entomologists, etc., A-K. 1895.	A9.2:B47 1-8
Pt. 4. Government and State entomologists, etc., A-K. 1895.	A9.2:B47 4
Pt. 5. Same, L-Z. 1896	A9.2:B47 5
Gypsy moth in Massachusetts in 1891, report on. p. 75	A9.3:26

	Classification no.
Hepatic coccidia of rabbits. See Eimeria stiedæ.	l
Hepialus argenteomaculatus, report on (Kellicott). 1889. p. 250	A9.7:1
Hepworth, M. W. Campbell. Aurora australis of April 20, 1897, report on p. 204	A 29 R 25
port on. p. 204.  Herbarium, U. S. National, contributions from	A6.5:
Herbarium for North America, north of Mexico, desiderata of,	1
ranunculaceæ to rosaceæ, inclusive. 1887	A6.3:4
See also Garden herbarium — Muhlenberg, H. — Vegetable Pa-	
thology Division.  Herbarium pest, new, notes on (Riley). 1891. p. 108	AQ 7.4
Same, further notes on (Riley). 1892. p. 40	A9.7:5
Herbarium specimens, insects which attack, fumigation with bisul-	
phid of carbon for complete and rapid destruction of (Du	
Bysson). 1893. p. 159	A9.7:6
Herbertson, A. J.:  Reinfall distribution of over land 1901 n 67	A 29 6:59
Rainfall, distribution of, over land. 1901. p. 67.  Rainfall and charts of rainfall. 1902. p. 243.  Heredia, ——, and Hermanos, ——. Sorghum growing in Spain.  1893. p. 34.	A29.6:30
Heredia, —, and Hermanos, —. Sorghum growing in Spain.	
1893. p. 34	A7.3:40
Hermann, Binger. Pioneer road building, historical paper on. 1902.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
p. 48.  Hermanos, —. Nee, as joint author, Heredia, —.	A 22.0.20
Herrmann, Charles F. von:	
Climate, studies of, with reference to crops of the several sections.	
1902. p. 198	A29.3:31
Forecasting for rivers of small drainage area, especially those of	A29.3:31
North Carolina. 1902. p. 158  North Carolina, climate and crops in, 1889–1898. p. 58	A27.9:5
Spring, advent of. 1902. p. 69	+ A 29.3:31
Herz, Joseph. Milk, water to, quantitative determination of addi-	!
tion of, and removal of cream therefrom. 1888. p. 168	A7.3:24
Herzegovina. See Bosnia and Herzegovina. Hesperogenia, a new genus of umbelliferæ, from Mount Rainier (Coul-	
ter). 1899. p. 203	A6.5:5
Hesperomys, new species of, from southern Florida, description of	
(Merriam). 1890. p. 53	A5.5:4
Hessian fly: Ribliography of 1883 p. 245	A*Q 1.2
Bibliography of. 1883. p. 245. California, note on. 1886. p. 43.	A9.3:12
Circular relative to (Marlatt)	A9.5:12
Importation of parasite from Europe (Forbes). 1891. p. 179	A9.7:4
Life history of, new notes on (Marten). 1891. p. 265	A9.7:3
New York State in 1901 (Felt). 1902. p. 22. North America, early references to occurrence of. 1883. App., p. 3.	A8.0:31   A8.1:3
Not imported from Europe (Hagen). 1883. App., p. 43	A8.1:3
Remarks on (Riley). 1888. p. 107.	A9.7:1
Russia (Koeppen). 1883. App., p. 41	A8.1:3
Silesia in 1869 (Cohn). 1883. App., p. 39.  Spring brood of, time of emergence and oviposition of (Garman).	A8.1:3
1902. p. 127	A10.3:115
1902. p. 127 United States, report on (Osborn). 1898.	A9.6:16
See also Rye gall-gnat.	1
Heteroptera of Death Valley expedition (Uhler). 1893. p. 260 Hevelius, halo of, notes on (Kimball). 1901. p. 566	A5.5:7
Hewitt, Sarah Cooper. Country roads, repairs of. 1894. p. 17	A29.0:29
Heyward, D. C. Roads, good, suggestions to friends of. 1902. p. 47.	
Hibernation. See Insects.	1
Hicklin, J. Brown, short biography of. 1901. p. 119	A29.6:29
Hickman, J. F.:  Cereals, variety testing in; how can it be rendered more decisive?	I
1891. p. 97	A10.3:7
Plants, testing varieties, report on. 1891. p. 103	A10.5:3
Hickman, Richard W. Scabies in cattle, description and treatment.	
1902 Same. 1902	1 A1.9:152
Hicks, Gilbert Henry:	71.0.1U
Grass seed and its impurities. 1898. p. 473	A1.10:898
Oil-producing seeds. 1895. p. 185	A1.10:895

Index	410 - 84 - 48
Hicks, Gilbert Henry—Continued .	('laxxification mo.
agricultural, standards of purity and vitality of. 1896 germination of, as affected by certain chemical fertilizers. 1900.	$\mathbf{A6.3:24}$
pure, investigation. 1894. p. 389 Hicks, Gilbert Henry, and Dabney, John C.: Seed, large, heavy, superior value of. 1896, p. 305	•
Seed treated with carbon bisulphid, vitality of. n. d	A6.4:11
notes on. 1897. p. 441	
Underflow and sheet waters, irrigable lands and geological structure of Nebraska, with its effect upon water supply. 1893. pt. 3, p. 167	A15.2:Ir7*
Hide-powder: Comparative tests, report on (Krug). 1901. p. 133	A7.3:62
Comparison with filter-tube method (Wiley and Krug). 1901. p. 136 Shake method of determining tannin by, notes on points of error	
in (Yocum). 1894. p. 204  See also Filter-tube method.  Hides:	A7.3:43
Cattle, shipped to United States, disinfection of. p. 508	A4.1:899 A4.1:899
Highee, E. E. Arbor Day for the commonwealth. p. 28	A1.8:56
Higbie State aid road bill, remarks at hearing by committees of senate and assembly at Albany, N. Y., February 25, 1897, on	
Higgins, John C. Scotland, agriculture and dairying in. p. 213 Highmore, S. Dak., range grass and forage plant experiments,	A4.1:898
cooperative, at (Scribner). 1899	A3.4:21 A3.4:33
American, functions of Government, State, and county in improvement of (Holmes). 1901. p. 39	A22.3:21
Construction and maintenance (Ashburner). 1895. p. 32 Convicts on, working (Stone). 1895. p. 11	A22.3:11
Europe and America (Eldridge). 1902. p. 19 Government aid in improvement of (Brigham). 1902. p. 33 Improved (Tessier). 1902. p. 60	A22.3:25
Improvement of— report on (Dickinson). 1902. p. 48	A22.3:25
shall farmer have aid for, from wealth of nation? (Bailey). 1901. p. 63 Legislation in New York, history of (Wright). 1901. p. 29	A22.3:21 A22.3:21
Maintenance and repairing. 1896.  Public, alignment of (Patton). 1902. p. 74  State, in Massachusetts (Perkins). 1894. p. 505.	A22.4:24 A22.3:23
Taxation, comparative results of labor and money systems. 1894. same, revised. See also Roads.	A22.4:16
Highways of commerce (Haupt). 1901. p. 56	
Agricultural colleges, preparatory teaching in. 1898. p. 61	A10.3:49 A1.1:878 •A1.10:895
Alkali soils and waters in California, 1888–89. p. 297	A15.2:P94 <sup>1</sup>
exotic fruits and useful plants of. 1892. p. 137 frosts in. 1896. p. 166 phylloxera in. 1892. p. 155 wines and brandies. p. 109	A1.8:20 A29.6:24 A1.8:20
wines and brandies. p. 109	I A1.8:20

	Classification no.
Hilgard, Eugene Woldemar—Continued	
Pacific slope— climates of. 1892. p. 9.	
climates of. 1892. p. 9.	A1.8:20
miscellaneous field cultures on. 1892. p. 79	
Salts in alkali soils, distribution of. 1896. p. 66	A10.3:30 A 90. 2.2
Soil, relations of, to climate. 1892	A29.5:3
lete progress in 1896 n 88	110 3.30
late progress in. 1896. p. 88 objects and interpretation of. 1886. p. 29	A7 3·10
objects and methods of. 1897. p. 84	A7.3:51
physical and chemical, report on methods of. 1893. p. 60	
summary of discussion on, from an article on cotton production	
of United States. p. 170.  Soils, nitrogen hungriness in, recognition of. 1895. p. 58	A1.1:885
Soils, nitrogen hungriness in, recognition of. 1895. p. 58	A7.3:47
Water supply, subterranean, of San Bernardino Valley and its	
utilization, studies of. 1902. p. 103.	A10.3:119
Hilgard, Eugene Woldemar, Jones, T. C., and Furnas, Robert W.	
Climatic and agricultural features, and agricultural practices	
and needs of arid regions of Pacific slope, with notes on Arizona and New Mexico. 1882.	A 1 8.20
Hill, George G.:	A1.0.20
Farm buildings, practical suggestions for. 1901.	A1.9:126
Marketing farm products. 1897	A1.9:62
See also, as joint author, Wilson, James W.	
Hill, George William:	
English farms and farmers, notes on some. 1898. p. 583	A1.10:898
Publications Division, Agriculture Department, work of, for	
farmer. 1897. p. 204 William Saunders, sketch of life of. 1900. p. 625	A1.10:897
William Saunders, sketch of life of. 1900. p. 625	A1.10:900
See also, for reports as Chief, Records and Editing Bureau, 1890–94;	
Chief, Division of Publications, 1895–98; and Editor and Chief, Division of Publications, 1895–1902	A21.1:
Hill, Robert Thomas:	Aali.
Artesian and underground waters in Texas, eastern New Mexico,	
and Indian Territory west of 97th meridian. 1893. pt. 3,	
	A15.2:Ir7 *
p. 41	A13.3:25
Imbibition of rocks. 1891. p. 213	A15.2:P94 <sup>1</sup>
Hill, W. E. Texas fever among cattle in Kansas. 1897. p. 318	A4.1:895–6
Hill, W. T. Sparrows, trapping of, for sporting purposes; with pa-	•
per descriptive of apparatus and methods employed. 1889.	15 9.1
p. 178. Hillman, F. H. Seeds of rescue grass and chess. 1902	A5.3:1
Hills, J. L. Skim milk, what is most profitable way to dispose of?	A15.51631
	A10.3:41
1896. p. 95. Hiltner, Robert S. Sugar analysis, report on. 1898. p. 87. Hinds W. E.	A7.3:56
Hinds, W. E.:	
Carbon bisulphid as an insecticide. 1902	A1.9:145
Carbon bisulphide, fumigation with. 1901. p. 78	A9.6:30
Hines, C. M. Swine plague in Cass County, Nebraska. 1879. p. 177.	A1.6:12
Hinkley, Nelson P. Horses, export of, from Buffalo, N. Y., and	A1 O.TITO
vicinity. 1898. p. 88	A1.2:H78
Hinman, C. I. Medicine Lodge, Kansas, notes on field work at.	A7.3:40
1893. p. 31	A1.3.40
See also, as collaborator, Wiley, Harvey Washington. Hinrichs, Gustavus. Rainfall laws, deduced from twenty years'	
observations. 1893	A29.2:R13
Hinton, Richard Josiah:	
Address of, before convention of National League for Good Roads,	
Washington. 1893. p. 56 Agriculture in Mexico. 1884. No. 13. p. 27	A10.3:14
Agriculture in Mexico. 1884. No. 13. p. 27	A27.9:22
. Irrigation and cultivation of soil thereby; physical data; condi-	
tions and progress within U.S. for 1891	A15.2:Ir72
administration by colonies of Victoria and Now South Wales	
administration by colonies of Victoria and New South Wales. 1891. p. 235	A15.2:P941
1001. p. 200	ARTON MIT OF

	Classification mo.
Hinton, Richard Josiah—Continued	
Irrigation in various countries, facts and conditions relating to.	
1891. pt. 1. p. 375	A15.2:Ir7 <sup>2</sup>
Irrigation in United States. 1887.	A15.2:1r71
Irrigation in United States. 1890, progress report on. 1891	A15.2:P941
See also, for reports as special agent in charge artesian and underflow investigation and irrigation inquiry, 1890 and 1891	A15.1:
Hinton, Richard Josiah, and others. Artesian wells within area of	A10.1.
ninety-seventh meridian and east of foothills of Rocky Moun-	
tains, preliminary investigation to determine	A15.2:Ar7
Hippelates plague in Florida (Schwarz). 1895. p. 374	
Hitchcock, A. S.:	
Bermuda grass. 1901	A3.4:31
Flora of southwestern Kansas, collection of plants made by C. H.	4070
Thompson in 1893, report on. 1896. p. 537	
Forage crops, cultivated, of Northwestern States. 1902	A19.3:31
Agricultural exports of United States, distribution of—	
1894–1898	A12.3:16
1895–1899	
1896–1900	
1897–1901	
Agricultural imports of United States, sources of—	
1894–1898	
1895–1899	
1896–1900	A12.3:24
1897–1901	A12.3:28
Agricultural imports of the United Kingdom, 1896–1900. 1902	A12.3:20
Agricultural products, our foreign trade in— 1893–1897	A 12 3·10
1894–1898	A12.3:15
1890–1899	
1891–1900	
1892–1901	
Denmark, trade of. 1900	
Egyptian cotton, exports of. 1897. p. 29	A10.3:42
Foreign markets for American agricultural products, testimony	44.0 00
before Industrial Commission relative to. 1901	A1.8:67
Foreign Markets Section, Agriculture Department, work of, for farmer. 1897. p. 270	A1.10:897
Philippine Islands—	11.10.07
plant products of, notes on. 1899.	A6.4:17
trade of. 1898	A12.3:14
Puerto Rico, trade of. 1898	A12.3:13
Scandinavia, our trade with, 1890–1900	A12.3:22
Spain, our trade with, 1888-1897	A12.3:12
Spain's foreign trade. 1898	A12.3:11
Trade, our, with Japan, China, and Hongkong, 1889–1899.	A12.3:18
See also, for reports as Chief, Section of Foreign Markets, Agriculture Department, 1897-1902	A12.1:
Hite, George H. Strawberry culture. p. 139	A1.1:863
Hoard, H. E. Address of, before convention of National League for	11111100
Good Roads, Washington. 1893. p. 48.	A10.3:14
Hoard, William Dempster. Farmers' institute, relation of, to our	
industrial population. 1902. p. 20	A10.3:110
Hobbs, Hermann E. Volcanic and atmospheric phenomena. 1902.	
p. 487	A29.6:30
Hodgson, E. J. Address of, before Minnesota good roads con-	100 0 0
vention, Jan., 1894. p. 15.	A22.3:2
Hoffman, J. D. Mechanic arts, student apprentice of. 1901. p. 186.  Hoffmansoggia North American species of revision of (Fisher)	A10.3:99
Hoffmanseggia, North American species of, revision of (Fisher).	A6.5:1
1892. p. 143. Hog and its products (Cist). p. 382	A1.1:866
Hog-cholera bacillus:	11111000
Associated with fatal disease in pigeons (Moore). 1895. p. 71	A4.3:8
Can bacillus of hog cholera be increased in virulence by passing	·
it through a series of rabbits? (Moore). 1894. p. 97	A4.3:6
- · · · · · · · · · · · · · · · · · · ·	

Function of by best in 117	A 1 1.007 0
Experiments on attenuation of, by heat. p. 117	A4.1:007-0
Experiments on production of immunity in rabbits and guinea- pigs with reference to swine plague and (Smith and Moore).	A1.1:888
	A4.3:6
1894. p. 41 Group of hog-cholera bacteria (Smith). 1894. p. 9 Variety of, which closely resembles bacillus typhosus (Dorset).	A4.3:6
p. 566	A4.1:901
What becomes of hog-cholera and swine-plague bacteria when injected in small numbers into subcutaneous tissues of pigs?	
(Moore). 1894. p. 103	A4.3:6
Hog cholera: Communication of, by carrion crows (Ford). p. 325 Germ of, enzymes, or soluble ferments of (De Schweinitz). p.	A4.1:895-6
266	A4.1:898
See also Hog-cholera bacillus.	111.1.000
History, nature, and treatment, as determined by inquiries and investigations of Bureau of Animal Industry (Salmon). 1889.	A1.8:46
Idaho (Williams). 1898. p. 179	A4.1:897
Indiana (Bitting), p. 199	A4.1:897
Inoculation for prevention of, results of experiments with (Sal-	
mon). 1892	A1.9:8
Introduction and spread of, in U.S., correspondence relating to.	
p. 187	A4.1:887-8
Investigations in Iowa, preliminary report (De Schweinitz). p. 501	A4.1:899
Investigations of—	11 1 000
1886. p. 603	A1.1:886
same, p. 20	A1.1.000
1887. p. 481	
Iowa (Niles). p. 500.	A 1 1 .898
Note on—	211.1.000
1866. pp. 56, 127	A27.9:4
1868. p. 320	A27.9:6
1884 (Trumbower), p. 419	A4.1:884
same, p. 238  Prevention of. p. 148  same, p. 156	A4.2:An5
Prevention of. p. 148	A4.1:887 <b>-8</b>
same, p. 156	A1.1:888
Report on (Law). 1875. p. 426	A1.1:875
Report on swine plague and (Salmon)	A1.9:24
Serum therapy in (Peters). p. 196	
Serum treatment for (De Schweinitz). p. 235	
Stamping out, in Page County, Iowa, experiments in. p. 249	A4.0.20 A4.1.898
Sweden, Denmark, and France. p. 159	A4.1.887_8
same, p. 168	A1.1:888
Variability of infectious diseases as illustrated by (Smith and	
Moore), 1894, p. 81	A4.3:6
Variety of, which closely resembles bacillus typhosus (Dorset).	
p. 566	A4.1:901
Sce also Cattle orders—Swine plague.	11 1 070
Hog fever, investigation of, in North Carolina (Salmon). p. 432	A1.1:8/8
Hogan, Mrs. Louise E. Shimer (reporter). Cooking, instruction in, in public schools of New York, history and present status of,	
with introduction by Alfred Charles True. 1899	A10.3:56
Hogg, Thomas. Japan, flora of. 1875. p. 178	A27.9:13
Hogs:	
Alfalfa hay for. 1899. p. 15.	$\Lambda 1.9:97$
Common, of Florida, crossing improved breeds of swine with	
(Furnas). 1895 Conditions affecting price of. p. 96	A4.4:4
Conditions affecting price of. p. 96	A1.1:890
same. p. 84. Crop, 1850–63. No. 6. p. 20.	A4.1:889-90
Urop, 1850-63. No. 6. p. 20	A27.9:1
Dead, uses of. 1886. p. 251 Fattening. 1863. No. 5. p. 5	A27.9.24 A97 0.1
rainening. 1000. 110. 0. h. 0	A41.0.1

Index .	Classification no.
Hogs—Continued	]
Feeding sheaf wheat to (French). p. 495	A4.1:898
Packed at Cincinnati, 1833-64. No. 6. p. 33.  Peanuts, cowpeas, and sweet potatoes as food for (Duggar). p.	A27.9:2
501	A4.1:898
Pork packing and, in West (Emery). p. 198.	A1.1:863
Raising in Northwest (French). 1900. p. 16	A1.9:117 A1.9:100
Raising in the South (Tracy). 1899 same. p. 362 Silage for (Beal). 1898. p. 20	A4.1:899
Silage for (Beal). 1898. p. 20	A1.9:103
Stock, for market. p. 101  See also Cattle orders—De Soto hogs—Farm animals—Hog	A4.1:595 <del>-1</del>
cholera — Swine plague.	
Hogue, Alvesto S. Animals, dead, disposition of, in Vienna. p. 350. Holcombe, A. A.:	A4.1:899
Horse, fetlock, ankle, and foot of, diseases of. p. 357	A4.2:H78
Sheep-scab mite and low temperature. p. 605	A4.1:901
Holcombe, J. W. Agricultural and mechanical colleges, relation of, to Department of Interior. 1893. p. 114	A10.3:16
Holden, E. S. San Joaquin County, California, resources of. 1868.	
p. 363	A27.9:6
Holladay, A. L. Grape vine, black-rot and mildew of, experiments in treatment of. 1890. p. 70.	
in treatment of. 1890. p. 70.	A6.3:11
Holland, E. B. See, as joint author, Lindsey, Joseph Bridges.  Holland, reclamation of lands in, reports of State geologist of New	
Jersey, 1869 and 1870. p. 221	A1.7:7
See also Java.  Holland agricultural experiment stations:	
Official methods of analysis of fertilizers and feeding stuffs adopted.	
by. 1899. p. 304. Report on (Atwater). 1895. p. 669	A10.6:10
Holloway, William R.:	
Animals, dead, disposition of, in St. Petersburg. p. 360	A4.1:899
Eggs, exports of Russian. p. 512  Leather industry of Russia. p. 528	A4.1:900
Hollyhock disease, new (Southworth). 1891. p. 45	$\boldsymbol{A28.5:6}$
Hollyhocks, sawfly, new, which is injurious to (Cockerell). 1894.	
p. 251 Holm, Theo. Panciums, American, in herbarium Berolinense and	A9.7:7
in herbarium of Willdenow. 1897. p. 17	A3.3:4
Holmes, Edwin S., jr.:  Brazos River Texas flood of June-July 1899 its effects upon	
Brazos River, Texas, flood of June-July, 1899, its effects upon agriculture of submerged region. 1899.	A27.4:10
Fruit industry of California, statistics of. 1901	A27.8:23
Wheat-growing and general agricultural conditions in Pacific coast region. 1901	A27.8:20
Wheat ports on Pacific coast. 1901. p. 567	A1.10:901
See also, as joint author, Ward, Edward G., jr. Holmes, George Kirby:	
Agricultural production and prices. 1897. p. 577 Agriculture, progress of, in U.S. 1899. p. 307	A1.10:897
Agriculture, progress of, in U.S. 1899. p. 307.	A1.10:899
Farm implements and machinery, course of prices of, for series of years. 1901	A27.8:18
Holmes, Joseph Austin:	
Address of, before national road conference, July, 1894. p. 17	A22.3:10 A1.7:9
Convict labor, use of, in road improvement in North Carolina.	
1895. p. 5 Highway improvement, American, functions of Government,	A22.3:16
State, and county in. 1901. p. 39.	A22.3:21
Road building in Southern States, some essentials in modern sys-	
tems of. 1902. p. 82 Road building with convict labor in Southern States. 1901. p. 319.	A22.3:23 A1 10:901
Roads, public, improvement of, in North Carolina. 1894. p. 513.	A1.10:894
Holmes, J. Garnett. Soil survey around Santa Ana, Cal. p. 385.1. See also, as joint author, Means, Thomas Herbert.	A26.5:900 <sup>1</sup>
www, as joint admit, means, intimas included.	

	Classification no.
Holmes, J. Garnett, and Mesmer, Louis:	
Soil survey of San Gabriel area, California. p. 559	A26.5:901 1
Soil survey of Ventura area, California. p. 521	
Holstein cattle (Chenery). p. 161 Holt, J. O. Meteorological observations near Circle City, Alaska.	A1.1:864
1896–98. p. 542	A29.6:26
Holzinger, John M.:	
Plants—	
collected by C. S. Sheldon and M. A. Carleton in the Indian	
Territory in 1891, list of. 1892. p. 189	A6.5:1
collection of, made by J. H. Sandberg and assistants in north-	A & K.O
ern Idaho in 1892, report on. 1895. p. 205new, from Texas and Colorado, descriptions of. 1893. p. 286.	<b>A6.5:3</b> <b>A6.5:1</b>
new to Florida, list of. 1893. p. 288	A6.5:1
Home fruit garden, preparation and care of (Corbett). 1901. p. 431.	A1.10:901
Same	A1.9:154
Home vineyard, with special reference to northern conditions	
(Ragan). 1902	
Homes, rural, adornment of (Vasey). 1872. p. 448	A27.9:10
Honey:	A7 9.196
Adulteration of (Wiley and others). 1892. p. 633 Production of, 1869-89. p. 112	
See also Bees.	A21.0.02
Honey bee. Manual of instruction in apiculture (Benton)	A9.6:1
See also Bees—Italian honey bee.	
Honey Lake Basin, California, irrigation problems of (Smythe).	
1901. p. 71	A10.3:100
nongkong:	A10 0.10
Our trade with, 1889–1899 (Hitchcock)  Typhoon of Nov. 10, I900, in, note on (Abbe). p. 558	A12.3:18 A90 <b>A.9</b> 0
Weather forecasting in (Doberck). 1899. p. 98	A29.6:27
Honolulu, Hawaii:	1120.0.21
Meteorological observations, monthly, at, Mar., 1894-April, 1901	
(Lvons)	A29.6:
Tables of dew-point observed at (Lyons). 1899. p. 587	A29.6:27
Hookworm disease (uncinariasis or anchylostomiasis), significance	A 4 1-001
of recent American cases of, in man (Stiles). p. 183	A4.1:901 A29.6:28
Hop crops, European. 1868. p. 409.	
Hop plant:	1127.0.0
Cultivation of (Bollman). p. 97.	A1.1:864
same. No. 1. p. 5	<b>A27.9:3</b>
same, in Bohemia (Fairchild). 1899.	
same, in California (Flint). 1900	A1.9:115
same, in England. 1870. p. 486	A21.9:0   A97 Q.97
same, in various countries. 1888. p. 537	
Insects affecting (Smith). p. 393	A1.1:884
same (Smith). 1884. p. 9.	A9.3:4
same (Howard). 1897. p. 40	A9.6:7
See also Crops, principal.	
Hop plant-louse:	
Experiments with, in Oregon and Washington (Koebele). 1893. p. 12	A9.7:6
p. 12	A1.1:888
same. p. 102	A9.1:888
same. p. 102. Further notes on (Riley). 1888. p. 70. Remedies to be used against	A9.7:1
LOMICATOR TO NO ABOVE ABURIES THE STATE OF T	A9.5:2
Hop substitutes. See Quassia.	
Hopkins, Andrew Delmar: Entomologist economic note and record keeping for 1803	
Entomologist, economic, note and record keeping for. 1893.	A9.7:6
Forest entomology, study of, in America. 1902. p. 5	A9.6:37
p. 103  Forest entomology, study of, in America. 1902. p. 5.  Forest-tree insects, study of. 1895. p. 75.	A9.6:2
Forests	1
damage to, by destructive pine bark-beetle. 1893. p. 187	
insect enemies of, in Northwest, preliminary report on. 1899.	A9.0:21

<b>Lnaex</b>	Classification no.
Hopkins, Andrew Delmar—Continued	
Insects detrimental and destructive to forest products used for	1 40 001
constructing material. 1902. p. 60	A9.6:31
Scolytids, destructive, and their imported enemy. 1893. p. 123.	A9.7:6
	A9.6:28
West Virginia—	
entomological discoveries and observations of year in. 1894. p. 145	A9.7:7
p. 145 insects, some notes on. 1898. p. 44	A9.6:17
observations in, on farm, garden, and fruit insects, some notes	
on. 1896. p. 71	A9.6:6
Hopkins, Cyril George:	A9.7:4
Alkalies in soil analysis, separation of, by official method. 1902.	
p. 43	A7.3:67
Soil analysis, mechanical, rapid method of, including use of cen-	A7.3:56
trifugal force. 1898. p. 67 Soil particles, division of, in mechanical analysis, plea for scien-	A7.5:00
tific basis for: 1898, p. 64	A7.3:56
Soils, samples of, method for taking, for analysis. 1902. p. 152.	A7.3:67
Hopkins, Cyril George, and Powers, W. A. Milk and cream, acidity of, determination of. 1895. p. 125.	A7.3:47
Hopkins, C. L. Vanessa californica, mountain swarming of. 1890.	A1.0.71
p. 355	A9.7:2
Hopkins, J. Howard. Weather prophet, every man his own. 1899.	100 0.07
p. 293 Hopkins, James D.:	A29.6:27
Animals, domestic, in U.S., contagious diseases among, investi-	
gation of 1883. p. 44	A1.8:29
Pleuro-pneumonia among cattle in New York, investigation of.	A 1 1 001 0
p. 43. Hordeum, genera, native and introduced species of (Scribner and	A1.1:881-2
Smith). 1897. p. 23.	A3.3:4
Horgen, Switzerland. Cost of hauling farm products over wagon	100 100
roads at (Streuli). p. 12	A22.4:27
Ohio, note on (Kellicott), 1891, p. 35	A9.7:4
Ohio, note on (Kellicott). 1891. p. 35	A9.7:4
Report on. 1889. p. 93	A9.7:2
Hornia, description of Leonia rileyi, new meloid genus near (Duges) 1889. p. 211	A9.7:1
Hornworm of tobacco. See Protoparce carolina.	110.7.1
Horr, Thomas J. See, as joint author, McLean, L.	
Horse-radish:  Post regristing of Furone and methods of cultivation (Fairchild)	•
Best varieties of Europe, and methods of cultivation (Fairchild).	A23.4:1
Circular on (Kains). 1898	A6.4:15
Culture in Bohemiá (Fairchild). 1899.	A6.4:20
Horse-radish flea-beetle, report of (Chittenden). 1895. p. 404	A9.7:7
1898. p. 613	A1.10:898
1898. p. 613 1899. p. 693	A1.10:899
1900. p. 647	A1.10:900 A1.10:901
1901. p. 625 See also Vermont Association of Horse Breeders.	
See also Vermont Association of Horse Breeders. Horse show, Chicago, Ill., 1890 (Martin). p. 349	A4.1:889-90
Horses:	
American— importation of into Brussels (Langhorne) 1897 n 26	A1 2.H78
in Belgium (Storer). 1897. p. 24	A1.2:H78
in Denmark (Kirk). 1898. p. 53	A1.2:H78
in Switzerland (Gifford). p. 503	A4.1:900
thoroughbred. in England (Wrav) n. 503	A4.1:899
importation of, into Brussels (Langhorne). 1897. p. 26 in Belgium (Storer). 1897. p. 24 in Denmark (Kirk). 1898. p. 53 in Switzerland (Gifford). p. 503 market for, in foreign countries. 1898 thoroughbred, in England (Wray). p. 503 used by large horse companies in Paris (Loncey). 1898. p. 42.	A1.2:H78
Barley as food for. 1901. p. 29.	A1.9:133

Classification no. Horses—Continued Breeding— for turf, road, and farm (Sanders). 1883. p. 229...... A1.7:2 A4.1:889-90 Cavalry— America (Morris). p. 159 Great Britain's purchases of, in Argentina (Buchanan). 1898. A1.1:863 A1.2:H78 p. 22 Cerebro-spinal meningitis in (Neale). p. 470 A4.1:899 Demand for and kind of, suited for European uses and present status of horse trade in different countries (Stubbs). 1898. A1.2:H78 Digestive organs of, diseases of (Michener). p. 15..... A4.2:H78 Diseases among mules and. 1868. p. 360. A27.9:6 Diseases among, in Illinois (Detmers). p. 355..... A1.1:881-2 Diseases of— report on. 1890.

Draft upon (Fulton). p. 511.

Enzoōtic cerebro-spinal meningitis in Idaho (Williams). 1898.
p. 179.

A4.2:H78
A4.1:898 Enzoötic cerebro-meningitis among, in Texas (Detmers). p. 363. A1.1:881-2 Export of— Buffalo, N. Y., and vicinity (Hinkley). 1898. p. 88...... A1.2:H78 Fetlock, ankle, and foot of, diseases of (Holcombe). p. 357..... A4.2:H78 France (Green). 1898. p. 39

Generative organs of, diseases of (Law). p. 135

A1.2:H78

A4.2:H78 German army, requirements for (Kuhn). 1898. p. 31 ........... A1.2:H78 Glanders among— Heart and blood-vessels of, diseases of (Trumbower). p. 219.... A4.2:H78 Imported into U.S., regulations for inspection and quarantine same, amendment, Oct. 20, 1900 A4.5:77 Industry of the Northwest (Nelson). 1900. p. 23 ...... A1.9:117 Influenza in (Law). p. 203.

Lameness of, its causes and treatment (Liautard). p. 269...... A4.2:H78 Leeches among, in Florida (Fish). p. 229 A4.1:895-6 Maladie du coit among— Nebraska and South Dakota, extirpation of (Norgaard). A4.1:893-4 Nebraska (Faville). p. 359 A4.1:891-2 Market classes of (Rommel). p. 433. A4.1:901 Meat of-American, in Denmark (Blom). p. 505.

As food in Germany (Guenther). p. 520.

A4.1:900

A4.1:900 Medicines to, methods of administering (Michener). p. 9 ..... A4.2:H78

Index	Classification no.
Horses—Continued	Crestingerine au.
Millet disease of. 1898. p. 20	A1.9:69
same. p. 539	A4.1:898
National horse of America (Macleod). p. 691	A1.1:007 A4.2:H78
Notes on. 1876. p. 119	A27.9:14
Ocean transportation of. p. 87	A4.1:900
Pneumonia among (Clement). p. 381	A4.1:889-90 A4.1:899
Principles of form required to adapt him to special purposes, no-	
tices of breeds, etc. (Howard). p. 335	A1.1:862
ness (Ringwalt). p. 321	A1.1:866
Respiratory organs of, diseases of (Harbaugh). p. 87	A4.2:H78
Shipping, to Germany, experience and observation in (Meyers).	
1898. p. 35	A1.2:H78 A4.2:H78
Silage for (Beal). 1898. p. 20	<b>A</b> 1.9:103
Skin of, diseases of (Law). p. 419.	A4.2:H78
"Staggers" among, in Virginia and North Carolina (Harbaugh). p. 209	A4.1:886
Switzerland (Du Bois). p. 520	A4.1:898
Trade of U. S. with foreign countries. p. 600	A4.1:901
Trade with Great Britain (Wellman). 1897. p. 45	
Urinary organs of, diseases of (Law). p. 59 Urine of, analysis (Caldwell). p. 247	A4.2:H78
Urine of, analysis (Caldwell). p. 247	A1.1:872
Wounds of, and their treatment (Michener). p. 447	A4.2:H78
French Napoleon stallion — Mares — Roadsters and trotters.	
Horticultural and kindred societies, officers of:	1110.000
1898. p. 621 1899. p. 704	A1.10:898 A1.10:899
1900. p. 658	A1.10:900
1901. p. 631	A1.10:901
Horticultural commission, Los Angeles County, Cal., report of. 1890. p. 312	A9.7:2
Horticultural exhibition, international, proposed to be held at Ham-	110.1.2
burg, note on. 1869. p. 63  Horticultural herbarium, making of (Davy). 1900. p. 93	A27.9:7
Horticultural periodicals. See Agricultural and horticultural period-	A10.3:76
icals.	
Horticultural quarantine rules of California. 1892. p. 168	A1.8:20
Horticultural school. See Ghent, Belgium. Horticultural societies, list of:	
1867. p. 364	A1.1:867
1869	· ·
1870	A1.8:5
1876	A1.8:12
Horticulture:	A1.8:39
Abstracts of reports of agricultural experiment stations on.	
1889–1902	A10.6:
American, danger to, from introduction of injurious scale insects (King). 1901. p. 171	A10.3:99
Climatology and—	
report on (Wickson). 1900. p. 45some interrelations of (Bailey). 1895. p. 431	A10.3:76
Directory of departments, boards, societies, colleges, and other	A29.3:11 <sup>2</sup>
organizations in interest of. 1885	A1.8:39
See also Horticultural societies.	
Education in Minnesota (Green). 1898. p. 84 Educational status of, report on (Card). 1901. p. 134	A10.3:49 A10.3:99
Experimental, systems of record keeping in (Corbett). 1896.	
p. 104 Hints in. p. 194	A10.3:41
Hints in. p. 194	A1.1:868

Classification no. Horticulture—Continued How shall we teach horticulture? (Lazenby). 1896. p. 60..... A10.3:30 A10.3:99 tions (Alwood). 1889..... A10.3:4 Papers on horticultural and kindred subjects (Saunders). 1891... A1.8:48 Plant physiology in relation to (Woods). 1901. p. 127...... A10.3:99 Relation of Arbor Day to (Skinner). p. 34..... A1.8:56 Teaching, laboratory methods in (Corbett). 1899. p. 127..... A10.3:65 Winter instruction in, laboratory work for (Goff). 1900. p. 95. A10.3:76 Wisconsin (Peffer). 1882. p. 174. A1.8:22 Work in-special, letter asking for reports regarding. 1889..... A10.4:10 State Agricultural Experiment Station, Geneva, N.Y., methods of keeping records of (Beach). 1898. p. 72..... A10.3:49 Yukon Valley, conditions in, preliminary report on (Jackson). A10.3:48 1898. p. 35... See also Evans, Walter H.—Rane, F. W.—and headings beginning Horticultural. Horticulture and botany section, Association of American Agricultural Colleges and Experiment Stations, report of: p. 101 1891. A10.3:7 1892. p. 93 ...... A10.3:20 1893. p. 91 ..... A10.3:24 1894. 1895. 1896. 1897. 1899. 1900. See also Botany section — Horticulture section. Horticulture section, Association of American Agricultural Colleges and Experiment Stations, report of: 1890. pp. 34, 151..... A10.5:3 1892. p. 167 A10.3:16 See also Horticulture and botany section. Horticulturists of agricultural experiment stations: List of, with outline of work in horticulture at the several stations (Alwood). 1889 Meeting of, at Columbus, Ohio, June 13, 14, 1889, proceedings of A10.3:4 A10.3:3same, report of secretary (Bishop). p. 9..... A10.3:3Some undefined duties and methods of (Rane). 1896. p. 76.... A10.3:30Horton, H. E. L. Sorghum sugar experiments at Rio Grande, N. J. A7.3:261889. p. 58... Hosmer, Ralph Sheldon, and Bruce, Eugene S. Forest working plan for township 40, Totten and Crossfield purchase, Hamilton County, N. Y., State forest preserve. 1901...... A13.3:30 Hosmer, Ralph Sheldon. See, as joint author, Whitney, Milton. Hospital gardening. 1865. No. 2. p. 12.
Host, color of, and its relation to parasitism (Stiles and Hassall). A27.9:31892. p. 265
Hot waves, conditions which produce them, and their effect on agri-A9.7:4 culture (Burrows). 1900. p. 325..... A1.10:900 Hotze, Mrs. R. S. See, as translator, Plumandon, J. R. Hough, Franklin B.: Forest condition and lumber and wood trade of New Hampshire and West Virginia. 1884. p. 348..... A13.5:4 Forestry, reports on. vols. 1-3..... A13.5: Forestry investigations, progress of. p. 653..... A1.1:880 Maple sugar, production of, in United States and Canada. 1884. A13.5:4 Railroad ties, timber used for, kinds and quantity of. 1884. p. 119. A13.5:4 

	Classification n
House ants:	1
Circular relative to (Marlatt). 1898	A9.5:34 AQ R.4
House centipede, circular on (Marlatt). 1902	A9.5:48
House flies:	•
Circular relative to (Howard). 1898. Notes on (Howard). 1898. p. 63.	A9.5:35
same, further notes. p. 55	A9.6:10 A9.6:17
Report on (Howard and Marlatt). 1896. p. 43	A9.6:4
See also Flies.	
House numbering and rural road naming (Davidson). 1901. p. 19.1 House plants, cultivation of (Hall). p. 366.	
House sparrow (Passer domesticus), at Saint Louis, Mo., history of	A1.1.000
(Widmann). p. 191	
See also Sparrows.	
Household insects:  Hydrocyanic-acid gas for exterminating, use of (Beattie). 1902.	
	A9.6:31
Principal, report on (Howard and Marlatt)	A9.6:4
Temperature effects on (Howard). 1896. p. 13	A9.6:6
Use of hydrocyanic-acid gas against. 1902	A9.5:46
Household tests for detection of oleomargarine and renovated butter	
(Patrick). 1901	A1.9:131
Hovenden, Thomas. Kites within a thunder cloud. 1898. p. 251. Howard, Burton J. Fruits and fruit products, microscopical exam-	A29.6:26
inations of. 1902. p. 103	A7.3:66
Howard, C. W.:	
Cotton States, condition of agriculture in. p. 215	A1.1:874
Howard, George Ellsworth:	A1.1:500
Chickens, standard varieties of	A1.9:51
same. p. 445	A1.10:896
Ducks and geese, standard breeds and management. 1897 Howard, Leland Ossian:	A1.9:64
Angoumois grain moth or "fly weevil." 1893. p. 325	A9.7:5
Aphelining of North America, a subfamily of Hymenopterous of	
family Chalcididæ, revision of. 1895  Army worm, circular relative to. 1894	A9.8:1 A9.5:4
Axima, North American, and its habits. 1890. p. 365	A9.7:2
Beet-leaf Pegomyia, report of. 1895. p. 379	A9.7:7
Box-elder plant bug. 1898.	A9.5:28
Buffalo gnats, or Simulium, common at Ithaca, N. Y., notes on. 1888. p. 99	A9.7:1
California, new beneficial insect in, establishment of. 1900. p. 16.	A9.6:26
Capri fig experiments in California, present status of. 1899. p. 28.	A9.6:20
Carpet beetle, or "Buffalo moth," circular on. 1894	A9.5:5
North American, from collections of U.S. Department of Agri-	
culture and of C. V. Riley, with biological notes; 1st paper,	
with list of described North American species of family,	A O 9.5
descriptions of, etc. 1885  pupation among, methods of. 1891. p. 193	A9.3:5 A9.7:4
Uneese, name, iruit, and vinegar, some insects affecting. 1896.	
p. 100. Chinch-bug, report on. p. 51.	A9.6:4
same. 1888	A1.1:887 A9 3:17
Coccidæ, parasites of, in collection of Agriculture Department.	
p. 350 Cockroaches, migration of. 1895. p. 349	A1.1:880
Cockroaches, migration of 1895. p. 349	A9.7:7 A1.1:887
Cornstalk borer, larger—	A1.1.001
circular on. 1896. report on. 1891. p. 95	A9.5:16
report on. 1891. p. 95	A9.7:4
same (with introduction) n 317	A10.3:33
Cotton plant, insects affecting. Jan., 1897 same (with introduction). p. 317 Disease, insects as carriers and spreaders of. 1901. p. 177	A1.10:901
•	

	Classification no.
Howard, Leland Ossian—Continued	
Elasmus, habits of. 1892. p. 253 Elm insect, newly imported. 1889. p. 34	A9.7:4
Elm insect, newly imported. 1889. p. 34	A9.7:2
Elm leaf beetle, futility of trunk and crown washing against. 1896. p. 36  Encyrtid, new and remarkable, is it parasitic? 1890. p. 145	AO R.A
Enoughid now and remarkable is it reposition 1800 n 145	AQ 7.Q
Entilia sinuata, habits of. 1901. p. 75	A 9 R · SO
Entomology—	220.0.00
economic, progress in, in United States. 1899. p. 135	A1.10-899
official economic, brief account of rise and present condition	111.10.000
· · · · · · · · · · · · · · · · · · ·	A9.7:7
of. 1894. p. 55	
60-mon 1907 n 94	A1.10:897
Europe, two beneficial insects introduced from. 1898. p. 13	A9.6:17
Fig-eater, or green June beetle, report on. 1898. p. 20	A9.6:10
Flies, carriage of disease by. p. 39	A9.6:30
Foreign governments, regulations of, regarding importation of	
American plants, trees, and fruits. 1900	A9.5:41
Fruit trees, important enemy to; San Jose scale, its appearance	40 7 0
in eastern United States, etc. 1893	A9.5:3
Gadflies, remedy for, Porchinski's recent discovery in Russia,	10.00
with some American observations. 1899. p. 24	
Grain plant louse, some new parasites of. 1890. p. 246	A9.7:2
Grass and grain joint-worm flies and their allies; a consideration of some North American Phytophagic eurytominæ. 1896	AO 9.9
Grasshoppers, fungous diseases of, experimental work with.	A9.0.2
	A1.10:901
Gypsy moth in America; a summary account of introduction and	
spread of Porthetria dispar in Massachusetts, and efforts made	•
by State to suppress and exterminate it. 1897	A9.6:11
Harlequin cabbage bug, or calico back, circular relative to. 1895.	
Health, how insects affect, in rural districts. 1902	A1.9:155
Hibernation of injurious insects, temperature experiments as	
affecting received ideas on. 1897. p. 18	A9.6:9
Hop plant, insects affecting. 1897. p. 40	A9.6:7
House flies, circular on. 1898.  House flies and mosquitoes, notes on. 1898. p. 55	A9.5:35
House flies and mosquitoes, notes on. 1898. p. 55	A9.6:17
House fly, further notes on. 1898. p. 63	A9.6:10
'Household insects, temperature effects on. 1896. p. 13	A9.0:0
Hydrocyanic acid gas, use of, against household insects. 1902 Hymenoptera, parasitic, host relations of. 1891. p. 277	A0.7.2
Hymenopterous parasites of California red scale. 1894. p. 227.	A9 7:8
Hyperaspis signata, beneficial work of. 1900. p. 17	A9.6:26
Icerya parasite, new, report of. 1892. p. 378	A9.7:4
Icerya purchasi, work against, in Portugal, with account of in-	
troduction from America of Novius cardinalis. 1898. p. 30	
Insect parasitism, study in, consideration of parasites of white-	
marked tussock moth, with account of their habits and inter-	
relations, with description of a few species. 1897	
Insect pests, danger of importing. 1897. p. 529	
Insects, foreign, desirability of an inspection system against.	440 -
1897. p. 111	A1.8:57
Insects, injurious—	AO 7.7
and commerce, report on. 1090. p. 552	A9.1:1
and commerce, report on. 1895. p. 332 methods of studying life histories of, notes on. 1893. p. 82. Irrigation and injurious insects. 1890. p. 215	A0.7.0
Kissing bug, insects to which name became applied during sum-	A0.1.2
mer of 1899. 1900. p. 24	A9.6:22
Laws against insects, injurious, in North America, recent, with	110.0.22
laws relative to foul brood. 1898	A9.6:13
Legislation against injurious insects; compilation of laws and	
regulations in U.S. and British Columbia. 1895	A9.3:33
Locust, American, damage by. 1894. p. 220.	A9.7:7
Maple pseudococcus, report of. 1894. p. 235	A9.7:7
Mexican cotton-boll weevil—	
1895	A9.5:61
same (in Spanish)	A9.5:62

idec X	Classification no.
Howard, Leland Ossian—Continued	
Mexican cotton-boll weevil—Continued	
1896, revisedsame (in Spanish). 1896	A9.5:14 <sup>1</sup>
same (in Spanish). 1896	A9.5:14* A0 5.191
same (in Spanish)	A9.5:18 <sup>4</sup>
same (in German)	A9.5:18 <sup>3</sup>
1897, revised	A9.5:27
1898 (supplementary)	A9.5:33
Mosquitoes—	AO 5.10
different, of North America, how to distinguishexperiment against—	A9.5:40
1892. p. 12	A9.7:5
1893. p. 90	A9.7:6
Mosquitoes and fleas—	
circular on	
report on. 1896. p. 9	A9.6:4
Mosquitoes of United States, notes on, giving some account of their structure and biology, with remarks on remedies. 1900.	AQ 6.95
Mytilaspis pomorum, new parasite of. 1894. p. 256	A9.7:7
Orchard, some scale insects of. 1894. p. 249	A1.10:894
Pachyneuron, habits of. 1891. p. 218.	A9.7:3
Parasite of supposed eggs of cotton stainer. 1889. p. 241	A9.7:1
Parasites—	4071
icerya, three new. 1889. p. 268	A9.7:1
injurious, report of. 1895. p. 402notes on. 1891. p. 48	A9.7:4
orgyia leucostigma, additional observations on. 1897. p. 15.	
two, of important scale insects, 1894, p. 5	A9.7:7
Parasitism, case of excessive. 1897. p. 62	A9.6:7
Pulvingria acericals (W & R.) and P. innumerabilis Rathy.	
1898. p. 57	A9.6:17
1898. p. 57 Pulvinarias, two most abundant, on maple. 1900. p. 7. San Jose scale in 1896–1897	A9.0:22
San Jose scale in 1690–1697  San Jose scale on dried fruit. 1898. p. 7	410.0.4
San Jose scale—	12010120
eastern occurrences of. 1894. p. 153	A9.7:7
further notes on. 1895. p. 283	A9.7:7
Scale insect, useful American. 1897. p. 38	A9.6:9 1
Shade-tree insect problem in eastern U.S. 1895. p. 361	WI.10:099
1895. p. 40	A9.6:2
Shade trees—	122000
insects which defoliate, in cities and towns, general work	_
against. 1896	A9.5:15
three insect enemies of. 1899	A1.9:99
Smyrna fig culture in United States. 1900. p. 79	A1.10.500
1890. pp. 269, 359	A9.7:2
1891. p. 202	A9.7:4
Spider parasites, external, 1888, pp. 42, 106	A9.7:1
Spraying, use of steam apparatus for. 1896. p. 69	A1.10:896
Sugar-beet webworm, completed life history of. 1894. p. 369	A9.7:0 A0.7:1
Sugar-cane beetle injuring corn. 1888. p. 11	A9.7.7
Timothy grass, new enemy to. 1892. p. 90.	A9.7:5
Timothy grass, new enemy to. 1892. p. 90	A1.9:120
yellow-spotted willow slug, report on. 1888. p. 33	A1.10:898
Yellow-spotted willow slug, report on. 1888. p. 33	A9.7:1
See also, as joint editor of Insect Life	Ay./:
culture Department. 1894–1901	A9.1:
See also, as joint author, Riley, Charles Valentine.	
Howard, Leland Ossian, and Marlatt, Charles Lester:	
Carpet beetle or buffalo moth, species injurious to woolen goods,	
clothing, carpets, upholstery, etc. 1896. p. 58	A9.6:4

	Classification no
Howard, Leland Ossian, and Marlatt, Charles Lester—Continued	
House flies, centipedes, and other insects that are annoying rather	
than directly injurious. 1896. p. 43	A9.6:4
Principal household insects of U.S.	A9.6:4
San Jose scale—	
its occurrences in United States, full account of its life history,	
and remedies to be used against it. 1896	A9.6:3
original home of. 1899. p. 36	A9.6:20
Howard, Sanford:	
Ayrshire cattle, characteristics of. p. 193	A1.1:863
Horse, principles of form required to adapt him to special pur-	
poses, notices of breeds, etc. p. 335	A1.1:862
Kerry breed of cattle. p. 313	A1.1:862
Howell, A. M.:	
Grape and tomato, fungus diseases of. 1889. p. 49	
Grape vine, diseases of, in South Carolina. 1888. p. 35	
Howell, Arthur H. Skunks of genus Chincha, revision of. 1901	A5.5:20
Howell, Martin A., jr. Canker worm, spring, experience with. 1883.	
App., p. 82	A8.1:3
Hoyt, John Wesley:	
Agricultural survey of Wyoming. 1893	A27.8:7
London, International Exhibition of 1862, account of. p. 27	A1.1:862
Hubbard, Frederick. Forests and rainfall in West India islands,	
relation of. 1873. p. 117	A27.9:11
Hubbard, Henry Guernsey:	
Aletia, report on. 1885. App., p. 5	A8.1:4
Ambrosia beetles. 1896. p. 421	A1.10:896
same. 1897. p. 9	A9.6:7
Amphizoa, larva of, notes on. 1892. p. 19	
Bamboo, cultivation of, in U. S., etc. p. 29	
Insect fertilization of an aroid plant. 1895. p. 340	A9.7:7
Insect guests of Florida land tortoise. 1894. p. 302	A9.7:6
Orange, insects affecting, with practical suggestions for their con-	
trol or extermination. 1885	A9.2:Or1
Orange insects, miscellaneous notes on. 1883. p. 9	
Rust of the orange. p. 361	
Scale insects, experiments on, progress in, etc. p. 152	A1.1.883
same, p. 152	<b>A</b> 9.1:883
Scale insects of orange; remedies and their application. p. 106	A9.1:882
Hubbard, Henry Guernsey, and Pergande, Theodore. Coccid, new,	10010
on birch. 1898. p. 13	A9.6:18
Hudson Bay region (Keewatin). Biological investigation of (Preble).	
1902	A5.5:22
Hudson County, N. J., tornado in, Aug. 24, 1901 (Eadie). p. 355	A29.6:29
Hughes, Henry A.:	
Sorghum-sugar experiments at Rio Grande, N. J.—	A 1 1 007
1887. p. 246	A1.1:887
same, p. 67	
1888. p. 268	A1.1:888
same, with additional matter. p. 29	A7.3:20
Sorghum-sugar manufacture, process for, used at Rio Grande,	A7.3:3
N. J. 1884. p. 54 Sugar factories, estimates of cost of. p. 252	A1 1.007
same. p. 73	A7.3:17
Hughes, Oliver J. D. Potato bread for horses in Germany. p. 530. Huidekoper, Rush Shippen:	A4.1.098
Hamburg International Exhibition (live stock) of 1883, report	
on n 286	AA 1.99A
game 1884 n 100	A4 9. Ans
on. p. 386 same. 1884. p. 199 Horse, general diseases of. p. 461	A4 9·H79
Hull House. See Chicago, Ill., dietary studies in.	ARTIMILLIO
Hulse, G. W. Beet sugar, manufacture of. 1870. p. 147	A27.9:8
Human body:	AA1.0.0
Conservation of energy in, experiments on (Atwater and Rosa).	
1800	A10.3-83
1899 Grub supposed to have traveled in. 1890. p. 238	A9.7·2
AND DEPRODUCE WELLS OF ALL TOOL P. 200	ALVI I IM

	Classification no.
Human body—Continued	<b>1</b> •
Metabolism of matter and energy in, experiments on (Atwater	A10.0.00
and others). 1899. same, 1898–1900 (Atwater and others).	A 10.3:09 A 10.3:100
See also Bladder — Blood — Body material — Bones — Energy.	1110.0.100
Human foods, composition of, etc.:	I
1894. p. 547	A1.10:894
1895. p. 573	
Humboldt County, Nevada. Agricultural interest in. 1868. p. 456.	A27.9:6
Humid climates, irrigation in (King). 1896	A1.9:46
Humidity:	1 20 2 20
Atmosphere, charts of, note on (Abbe). 1901. p. 118	A29.6:29
Monthly notes on, Oct., 1894-Oct., 1902	A29.6:
Relative—	
inside and outside of buildings (Henry). 1896. p. 456	A29.6:24
psychrometric tables for obtaining (Marvin). 1900tables for obtaining temperature of. 1897	A29.2:P95
San Juan, Porto Rico, report on (Phillips). 1899. p. 319	
Vertical gradients of (Frankenfield). 1898	
See also Vapor pressure.	1
Humphreys, D. C. Roads, stone and shell. 1894. p. 52	A22.3:11
Grandeau's method for determination of, modification of (Huston	
and McBride). 1893. p. 84	A7.3:38
Importance of maintaining a supply of, in soils. 1898. p. 5 In its relation to soil fertility (Snyder). 1895. p. 131	, A1.9:78
In its relation to soil fertility (Snyder). 1895. p. 131	A1.10:895
Hundred years' progress in agriculture (Flint). p. 274	
Same, notice of circular	A1.2:H89
Hungarian grass. 1867. p. 207	A27.9:5
Hungary: Agricultural experiment stations of. 1902. p. 4	A10 A-13
Agriculture of, facts relating to. 1867. p. 377	A27.9:5
Horses of. 1876. p. 120	A27.9:14
Milling in, report on (Dewey). 1893. p. 38	A27.9:31
Viticultural statistics of. 1876. p. 427. Wheat exports of, 1855–68. p. 148.	
Wool industry in. 1873. p. 191	A27.9:11
See also Austria-Hungary.	
Hunt, Caroline L. See Atwater, Wilbur Olin, and Bryant, Arthur	1
Peyton. Hunt, Ezra M.:	•
Animal diseases, contagious. p. 437	A4.1:884
same. 1884. p. 260	A4.2:An5
Animal diseases, contagious, extension of, and methods for their	A4 1.995
limitation. p. 446	A1.1:881-2
Pleuro-pneumonia, contagious, in New Jersey. p. 297	A4.1:884
Hunt, George E.:	
Atmospheric pressure, high and low, monthly notes on, May, 1900, June-Aug., 1901, JanOct., 1902	A29.6:
River and flood service, monthly notes on, June, 1902	A29.6:30
Rivers and floods—	
monthly notes on. Apr., 1901. p. 146	A29.6:29
notes on. May, 1900. p. 195	A29.0:28
Agriculture, methods of instruction in teaching. 1896. p. 35	A10.3:30
Plats, equalizing irregularities of, caused by defective germina-	ł
tion. 1891. p. 111	A10.5:3
Hunter, Walter D.: Cicada, periodical, in 1902, circular on. 1902	A9.5.44
Locusts, destructive, in 1897. p. 40	A9.6:10
Melanoplus spretus, investigation to determine whether, breeds	
permanently in Turtle Mountains, in North Dakota. 1900.	10 0.00
p. 30	1 AH.0:22

A28.3:26

Hyacinth germ, Wakker's (Smith). 1901.....

Hyacinth. See Water hyacinth.

	Classification no.
Hybrid offspring, quantitative studies on transmission of parental characters to (Spillman). 1902. p. 88	
Hybridizing: Cultivation and, of wheat (Watts). 1872. p. 432 Improvement of grape by (Campbell). p. 209 See also Evens Walter H	A27.9:10 A1.1:862
See also Evans, Walter H.  Hybrids and their utilization in plant breeding (Swingle and Webber). 1897. p. 383  Hyde, Gustavus A., notes on (Abbe). 1901. p. 220.	A1.10:897 A29.6:29
Hyde, John: Agricultural statistics of Eleventh U. S. Census, discussion of. p. 12 Fertilizer industry, production and consumption, review of statis-	A4.3:11
tics of, with abstracts of State laws for analysis of sale. 1898 Flax and hemp, extracts from Eleventh Census bulletin on.	A27.8:13
1892. p. 83. tatistics Division, Agriculture Department, work of, for farmer.	A11.5:4
same, reprinted with title "Of what service are statistics to the farmer?"	A1.10:897 A27.8:14
See also, for reports as Statistician, Agriculture Department,   1897-1902	A27.0.14 A27.1:
Hydrocyanic-acid gas: As an insecticide (Coquillett). 1893. p. 176	A9.7:6
Experiments with, as means of exterminating mealy bugs and other insect pests in greenhouses (Hemenway). 1900. p. 69. Fumigating greenhouses and cold frames, use of (Woods and	A9.6:22
Dorsett) Low-growing plants, as an insecticide on (Sanderson and Penny).	A9.5:37
New method for handling, in orchards; Emory fumigator (Johnson). 1899. p. 43	A9.6:26 A9.6:20
Notes on (Lounsbury and Mally). 1902. p. 75	A9.6:31
Remedy for San Jose scale and other insects (Johnson). 1898.	A9.7:7
p. 39 Results with, for destruction of insects in large buildings (Johnson). 1901. p. 166	A9.6:17 A10.3:99
Treatment for scale insects, history of (Coquillett). 1891. p. 457. Use of—	A9.7:3
against household insects (Howard). 1902	A9.5:46 A9.7:2 A9.6:31
Hydrodynamic equations for atmosphere, note on (Abbe). 1897. p. 445	A29.6:25
Hydrodynamics, equations of, in form suitable for application to problems connected with movements of earth's atmosphere (Cottier). 1897. p. 296	A29.6:25
Hydrographic Office, U. S., voluntary meteorological observers of, instructions to (Abbe). 1901. p. 314	A29.6:29
See also Marine Meteorology Division.  Hydrography of southern Appalachians (Pressey and Myers). p. 123.	A1.2:Ap4*
Hydrological congress. See Clermont-Ferrand, France. Hydrology and stratigraphy of Nevada (Hicks). 1890. p. 71 Hydrology of Lake Minnetonka watershed (Cooley). 1899. p. 14	A15.2:Ar7 A29.6:27
Hygiene and demography congress, 1900. See Paris, tenth international congress of hygiene and demography.	
Hygrometer, crude (Abbe). 1898. p. 567.  Hygrometric observations, utility of (Pennell). 1899. p. 162.	A29.6:26 A29.3:24 A29.3:24
Same (Hazen). 1899. p. 164.  Hylesinus sericeus, notes on (Schwarz). 1894. p. 254.  Hymenomycetes, spores of, method for preserving (Harz). 1889.	A9.7:7
p. 163	A28.5:5 A28.5:5

	Classification no
Hymenoptera:	
Bred parasitic, in the national collection, some of—	1 40 5 0
1890. v. 2. p. 348 1890. v. 3. p. 15, 57, 151, 460	A9.7:2
1891. v. 4. p. 122	1 A9.7:3 1 A9.7:4
Parasitic, host relations of (Howard). 1891. p. 277.	A9.7:3
See also Nematine — Typhlocyba.	
Hymenopterous parasites:	
Of California red scale (Howard). 1894. p. 227	A9.7:6
Of Coleoptera, observations on some (Chittenden). 1893. p. 247. See also Aphelininæ.	A9.7:5
Hyperaspis signata, beneficial work of (abstract) (Howard). 1900.	
p. 17	A9.6:26
Hyphomycetous fungi. See Fungi.	
Hypoderas columbæ, note on (Kellicott). 1892. p. 77	A9.7:5
Hypoderma bovis, larvæ of (Curtice). 1890. p. 207 Hypoxylon, North American species of, synopsis of (Ellis and Ever-	A9.7:2
here) 1880 p. 10	A 90 5.5
hart). 1889. p. 19. Iberia Parish, La. Soils and production of (Rapley). 1884. p. 34.	A1.8:35
Ice:	221.0.00
Anchor, note on (Abbe.) 1897. p. 212	A29.6:25
Breaking up of, at Pierre, S. Dak., notes on, 1846-89 (Abbe).	
p. 109	A29.6:27
Crop of, from meteorological point of view (Abbe). 1895. p. 13. Drift, and theory of ocean currents (Daly). 1900. p. 433	A29.6:23
Jam in Niagara River, note on (Abbe). 1899. p. 61.	A 29.0:26
Kennebec River, report of (Abbe). 1897. p. 98.	A29.6:25
Lake, sudden disappearance of, note on (Abbe), 1900, p. 114.	A29.6:28
same (Ten Broeck). 1900. p. 287  Measurements of, notes on (Volker). 1899. p. 142	A29.6:28
Measurements of, notes on (Volker). 1899. p. 142	A29.3:24
Vapor pressure for, note on (Abbe). 1899. p. 476	A29.6:27
Ice caves:	A29.16:
As meteorological phenomena (Kimball). 1901. p. 366	A29.6:29
Flagstaff, Ariz. (Renoe). 1901. p. 54	A29.6:29
Freezing wells and, notes on (Kimball). 1901. p. 509	A29.6:29
Notes on (Abbe). 1901. p. 71. Ice columns, publications on (Abbe). 1898. p. 217.	A29.6:29
Ice storm, note on (Abbe). 1900. p. 154.	A29.6:26 A29.6:28
Ice trade:	A20.0.20
History of (Wetherell). p. 439	A1.1:863
Weather Bureau and, note on (Abbe). 1899. p. 63	A29.6:27
Iceland, meteorological reports by cable from, notes on (Abbe). 1899.	1 00 0 0
p. 103	A29.6:27
Its probable origin the islands of Bourbon and Mauritius (Riley).	
1887. p. 27	A9.3:15
Notes on. 1891. p. 439	A9.7:3
Parasite, new, report of (Howard). 1892. p. 378	A9.7:4
Some new, report on. 1890. p. 92  Three new parasites of (Howard). 1889. p. 268	A9.7:3
See also Scale insects.	A9.7:1
Icerya purchasi:	
Australian parasite of (Williston). 1888. p. 21	A9.7:1
Letter on. 1889. p. 15	A9.7:2
New Zealand (Wight). 1893. p. 194	A9.7:6
Work against in Portugal, with account of introduction from America of Novius cardinalis (Howard). 1898. p. 30:	AO A.10
Idaho:	A9.0:10
Agriculture in (Whitson), 1869, p. 369	A27.9:7
Canals in, distribution of water from (Ross). 1902. p. 199	A10.3:119
Climate of, some features of (Blandford). 1901. p. 19	
Cricket, western, and certain locusts in, outbreaks of (Milliken)	
Forest condition of Rocky Mountains in (Ensign). p. 41	
Hog cholera and enzootic cerebro-spinal meningitis among horses	42V+1+U
in (Williams). 1898. p. 179	A4.1:897

Index	Allowald and law ma
Idaho—Continued	Classification no.
Investigation of codling moth in, 1900 (Simpson). p. 51	A15.2:P941
North, insects of, notes on (Aldrich). 1894. p. 201	A9.7:7
Northern, plants in, collection of, made by J. H. Sandberg and assistants in 1892, report on (Holzinger). 1895. p. 205	AR 5:3
Rainfall and rivers in, notes on (Abbe). 1898. p. 473	A29.6:27
South central, biological reconnaissance of, results of (Merriam).	
Thunderstorm of May 16, 1900, in, notes on (Abbe). p. 207	A5.5:5
Water in, duty of (Ross). 1902. p. 221	
Water supply of, for season of 1900 as depending on snowfall	•
(Blandford). p. 494 Weather forecasts for 1895–99, notes on (Abbe). p. 313 See also Boise Valley — Cœur d'Alene Mountains — Pacific North-	A29.6:28
See also Boise Valley — Cour d'Alene Mountains — Pacific North-	A29.0:21
west.	
Idaho pea. See Gram.	4.00 C.05
Ignis fatuus or Jack-o-lantern (Abbe). 1897. p. 211	A29.6:20 A29.3:11 <sup>2</sup>
Ilex cassine, aboriginal North American tea, its history, distribution,	
and use among native North American Indians (Hale). 1891.	
See also Yaupon. Illinois:	
Cattle trade and dairy interest of (Perry). p. 335	A4.1:885
Crops in (Osborn), 1891, p. 483	A27.9:29
Farm resources and products of. 1868. p. 257	A27.9:6
Farmers' institute work accomplished in (Coolidge). 1902. p.	A10.3:120
Horses in, diseases among (Detmers). p. 355	A1.1:881-2
Northern, dairy husbandry in. 1874. p. 159	A27.9:12
Nursery inspection and orchard insecticide work in (Forbes). 1901. p. 172	A10.3-99
Oats and corn in, cost of growing. 1873. p. 36	A27.9:11
Road improvement in, address on (Stone). 1897	A22.4:28
Swine plague in (Detmers). 1880. p. 13	A1.6:22
Illinois, University of:	
College of Agriculture, building for. 1901. p. 604	A10.6:12
Illinois Farmers' Institute, letter to, on road improvement (Stone).	A10.3:91
1897. p. 23	A22.4:28
Illinois State Agricultural Society fair, Decatur, Sept., 1870 (Capron)	
p. 420	A27.9:8
1890. p. 435	A1.1:890
1890. p. 435 1891. p. 485	
1892. p. 495	
Imbibition of rocks (Hill). 1891. p. 213	A15.2:P94 <sup>1</sup>
Immigration statistics:	
1864, JanJune; No. 4, p. 8; July-Sept., No. 5, p. 37	A27.9:2
1867, July-Sept. p. 370	A27.9.5 A27.9:5
1820–1870. p. 482	A27.9:8
1872 and 1873. p. 60 Imperial, Cal., soil survey around (Means and Holmes). 1902	A27.9:12
Same (Means and Holmes). p. 587.	A26.5:901 <sup>1</sup>
Same (Means and Holmes). p. 587.  Imperial German meat inspection law. 1901.  Imphee and sorghum culture (Smith). p. 129.	A4.4:32
Imphee and sorghum culture (Smith). p. 129	A1.1:862
Implements. See Agriculture implements. Import duties, foreign, on wheat 1893, p. 248	A 27-9:31
Import duties, foreign, on wheat. 1893. p. 248. Imports and exports, agricultural, reports on, 1893–1899	A12.4
See also Agricultural imports — Names of countries.	
Incubators. See Chinese incubators. Indexes of Agriculture Department. See Agriculture Department,	
indexes and lists.	

•	Index
T., 31.	Classification no.
India: Agricultural statistics of. 1895. p. 448	A 97 O.19
Agriculture in, account of (Siva). 1874. p. 389	A27.9.13 A27 9.12
Cinchona cultivation in. 1870. p. 285.	A27.9:8
Cold weather storms of (Abbe). 1894. p. 295	A29.6:21
Cotton eron of—	
1892. p. 280	A27.9:30
1892–93. p. 167	A27.9:31
1893–94. p. 203	
1894. p. 24	A27.9:33
1894–95. p. 146	A27.9:8
Cyclical changes in, preliminary discussion (Dallas). 1897. p. 532.	A29.6:25
Droughts, famines, and forecasts in (Archibald). 1900. p. 246	A29.6:28
Droughts and famines in (Eliot). 1895. p. 444	A29.3:11 <sup>2</sup>
Droughts in, prediction of (Dallas). 1894. p. 13	A29.3:11 <sup>1</sup>
Irrigation in. 1873. p. 604.  Jute in United States and. p. 294	A27.9:11
Jute in United States and. p. 294	A1.1:874
Labor in United States and, distribution of. 1887. p. 366	A27.9:20
Meteorological work in, history of (Kimball). 1902. p. 31 Rice crop of, 1894. p. 147	
Seasonal forecasts in, notes on (Abbe). 1898. p. 266.	A29.6:26
Sugar-cane in, cultivation of, 1875. p. 135.	A27.9:13
Wheat competition. 1887. p. 586	A27.9:25
Wheat crop in—	
1884. No. 11	A27.9:22
1884–85. No. 21. p. 39	A27.9:23
1886–87. p. 386	A27.9:25
1887–88. p. 420	A27.9:20
1889–90. p. 419.	
1884–90. p. 299.	
1890–91. p. 411	
1891–92* p. 355	
1892–93. p. 308	A27.9:31
1893–94. p. 423	
Wheat culture in (Hauser). p. 569	A1.1:885
Wheat production and exportation in, course of, 1880–1896	A12.4:10
See also Bengal — Burma — Calcutta — Madras — Punjab. Indian agricultural exhibition. 1868. p. 406	A 27 9.6
Indian corn. See Maize.	1127.0.0
Indian mallow. See Abutilon avicenæ.	
Indian monsoons and Nile floods, notes on (Abbe). 1900. p. 252	A29.6:28
"Indian summer," note on (Matthews). 1902. pp. 19, 69	A29.6:30
	A29.6:30
Indian Territory: Artesian and underground waters in, west of 97th meridian (Hill).	
1893 nt 3 n 41	A 15. 2·Tr7 2
Cattle in, report on (Shaw). 1885. No. 20. p. 27	A27.9:23
Frosts in, dates of first killing (Abbe). p. 328	<b>A29.6:22</b>
Plants collected in, by C. S. Sheldon and M. A. Carleton in 1891	
(Holzinger). 1892. p. 189	A6.5:1
Indiana:	A 4 1.005
Cattle trade and dairy interests of (Perry). p. 335	1 A4.1:880   A0 2.19
Crops in (Osborn). 1891. p. 483	A 27 9 29
Farm resources and products of. 1868. p. 255	A27.9:6
Crops in (Osborn). 1891. p. 483  Farm resources and products of. 1868. p. 255  Farmers' institute work accomplished in (Latta). 1902. p. 21.	A10.3:120
Forestry for certain portions of (Furnas), 1884. p. 346	A13.5:4
Fruit growing in. 1873. p. 356.  Hog cholera and swine plague in (Bitting). p. 199	A27.9:11
Hog cholera and swine plague in (Bitting). p. 199	A4.1:897
Larvæ of crane-fly destroying young wheat in (Webster). 1890.	AO 7.2
p. 12	A9.7:3
p. 20	A29.6:20
Road improvement in, extract from governor's message (Mount).	
p. 3	A22.4:33

# Ind

	('lassification no.
Indiana—Continued	10010
Southeastern, periodical cicada in. 1886. p. 24	A9.3:12
Strawberry-leaf flea beetle in (Webster). 1891. p. 137	A9.7:3
Swine-plague in (Voyles). 1879. p. 112	A1.0:12 A1 1.070
See also Purdue University.	A1.1.070
Indians, North American:	
	A1.1:870
Food products of. p. 404	A6.3:14
See also Klamath Indians — Mendocino County, Calif.	A 1 1.079
Indigo plant, cultivation of, in U.S. p. 255	A1.1:0/0
263	A29.6:29
Industrial classes, education of (Andrew). 1864. No. 1. p. 15	A27.9:863
Industrial colleges:	
Buildings for, general plan, with necessary aids to instruction in	A 97 9.1m9
each department of education (Owen). 1864	A1.1:867
same, additional. p. 540	A1.1:868
Nature of education, etc. (Bollman). 1864	A27.2:In2
Industrial development, relation of good roads to (Hays). 1902.	
p. 78	A22.3:23
Industrial education: Paper on (Willits). 1885. p. 55	A1 7·9
same (McWhirter). 1885. p. 105	A1.7:9
Progress of—	
1869. p. 452	A1.1:869
1870. p. 467 1871. p. 306	A1.1:870
1872. p. 348	A1.1:0/1
1873. p. 321	
1874. p. 312	A1.1:874
1875. p. 469	A1.1:875
1876. p. 326  See also Agricultural education.	A1.1:876
Industrial expositions. 1872. p. 288	A27.9:10
Industrial population, relation of farmers' institute to (Hoard).	
1902. p. 20	A10.3:110
Industrials [or manual training], practical importance of (Gilkison).	A10.3:76
1900. p. 96	A1.7:2
Industry:	
Profits of. 1865. No. 2. p. 15	A27.9:3
Southern, notes on. 1866. p. 412	A27.9:4
same. 1867. p. 371 Vs. speculation. 1892. p. 134	A27.9:0 A 97 9:90
See also Trade.	1127,0.00
Infant and invalid foods, analysis of, provisional method for (Wiley).	
1902. p. 41	A7.3:65
Infantado sheep. p. 354 Infectious diseases. See Diseases of animals and references there-	A1.1:866
under.	
Influenza in horses (Law). p. 203	A1.1:872
Information and Exchange Bureau, Agriculture Department, crea-	A 1. 7. 0
tion of, address favoring (Woodhull). 1885. p. 90	A1.7:9
Agricultural experiment stations bulletin, present and prospec-	
tive. 1893. p. 138.  Field experiments, cooperative, report on. 1891. p. 109	A10.3:16
Field experiments, cooperative, report on. 1891. p. 109	A10.5:3
Inoculation:  As a preventive of swine diseases. p. 58	A1.1:889
same. p. 16	A4.1:889-90
same. p. 16.  For prevention of hog cholera, experiments with (Salmon). 1892.	A1.9:8
For rinderpest. 1872. p. 149	A27.9:10
Insect borer of apple twigs (Glover). 1873. p. 29	AZ1.9:11
Insect borers, few, notes on (Davis). 1891. p. 64	A5.3:6

	CIRREILICATION N
Insect collection of a large museum, suggestions for (Riley). 1890.	
p. 342	A9.7:2
Insect life, devoted to the economy and life habits of insects, espe-	
cially in their relation to agriculture; edited by C. V. Riley	
and L. O. Howard. vols. 1-7. Index. 1888-1895	A9.7:
See also Murtfeldt, Mary E.	
Insect pests:	
Action taken regarding, in California. 1892. p. 158	A1.8:20
Danger of importing (Howard). 1897. p. 529	A1.10:897
Four imported, notes on (Kirkland). 1902. p. 93	A9.6:31
Household-	
bedbugs and red ants (Riley). 1889. p. 104.	A9.7:2
carpet beetle, or so-called buffalo moth (Riley). 1889. p.	
	A9.7:2
cockroaches (Riley). 1890. p. 266	A9.7:2
true clothes moths (Riley). 1890. p. 211	A9.7:2
Hydrocyanic-acid gas as a means of exterminating (Hemenway).	110.1.2
1900. p. 69	A9.6:22
Plant diseases and, proceedings of national convention for sup-	A.U.U.22
pression of (Galloway). 1897	A1.8:57
Spraying fruits for. 1892	A1.9:7
Trinidad, British West Indies, notes on some (Urich). 1893.	A.1.9.7
100	107.0
p. 196	A9.7:6
	40.70
Insect vivaria, how are [they] to be lighted? (Swinton). 1890. p. 18.	A9.7:3
Insectary and office methods in use in entomological department of	
Ohio Agricultural Experiment Station, report on (Webster).	1000
1899. p. 46	A9.6:20
Insecticide appliances, report on (Riley). 1889. p. 243, 263	A9.7:1
Insecticide soaps, report on (Marlatt). 1896. p. 38	A9.6:6
Insecticides:	1000
Arsenical, soluble arsenic in (Haywood). 1902. p. 51	A9.6:37
Arsenites and arsenical mixtures as (Gillette). 1893. p. 115	A9.7:6
Carbon bisulphide as an (Smith). 1894. p. 108.	
same (Hinds). 1902.	A1.9:145
Crude petroleum as (Wilcox). 1900. p. 15	A1.9:114
Early spring applications of, on fruit trees, some effects of (Felt).	
1900. p. 22	A9.6:26
Experiments at Ames, Iowa (Osborne). 1886. p. 23.	A9.3:11
Experiments at Trenton, N. J. (Bennett). 1886. p. 27	A9.3:11
Experiments with, some (Marlatt). p. 33	A9.6:20
same. 1886. Farm practice and fertilizers as (Smith). 1893. p. 93.	A9.3:11
Farm practice and fertilizers as (Smith). 1893. p. 93.	A9.7:6
Fertilizers as (Smith). 1891. p. 217	A9.7:3
Formulas for (Marlatt). 1894. p. 572.	A1.10:894
same. 1895. p. 580	A1.10:895
Hydrocyanic acid gas as (Coquillett). 1893. p. 176	A9.7:6
same, on low-growing plants (Sanderson and Penny). 1900.	
p. 60	A9.6:26
Important—	
condensed information concerning, May, 1891	A9.5:1
directions for preparation and use (Marlatt)	A1.9:19
same, revised. 1901	
Methods of analysis for. 1902. p. 97.	
Naphthaline as (Taylor). 1883.	A18.2:N16
New and old, and their combination with fungicides, some obser-	
vations on (Galloway). 1894. p. 126	A9.7:7
vations on (Galloway). 1894. p. 126 New, report on (Kirkland). 1896. p. 27	A9.6:6
Notes on (Marlatt)—	
1894. p. 115	A9.7:7
1895. p. 19	A9.6:2
1897. p. 54	A9.6:9
1898. p. 94	A9.6:17
Preparation and use of—	
1896. p. 619	A1.10:896
1897. p. 637	A1.10:897
1898. p. 659	
	<del></del>

ADUCA	Classification a
Insecticides—Continued	
Tests with, upon garden insects (Alwood). 1887. p. 38	A9 3-13
Use of, practical notes on (Beckwith). 1891. p. 269	A9.7:3
See also Arsenical insecticides—Fungicides and insecticides—Hy-	1101110
drocyanic-acid gas — Kerosene — Kerosene emulsion — Naph-	
thaline—Oil emulsions—Orchard insecticide work in Illi-	
nois — Paris green — Petroleum — Pyrethrum — Spray ma-	
chinery.	
Insects:	
Acorn, primary and secondary (Murtfeldt). 1894. p. 318	A9.7:6
Animals, domestic, insects affecting (Osborn). 1896	
Asparagus (Chittenden). 1898. p. 54.	A9.6:10
Beans and peas, insects injurious to (Chittenden). 1898. p. 233. Carriers and spreaders of disease (Howard). 1901. p. 177	A1.10:898
Collection of, small, made during Death Valley expedition, re-	A1.10.801
port of (Riley). 1893. p. 235.	A5.5:7
Collections of, how shall we improve? (Gillette). 1895. p. 95	
Contagious diseases, use of, in contending with (Osborn). 1890.	
	A9.7:3
p. 141. Corn, observations on, in 1887 (Webster). p. 147.	A1.1:887
same, 1890 (Webster). p. 159	A9.7:3
Cranberry, insects affecting (Smith). p. 393	A1.1:884
Destruction of, recent inventions for (Breed). p. 323	A1.1:876
See also Insecticides.	
Dipterous, two, injurious to cultivated flowers (Coquillett). 1895.	A9.7:7
p. 399 Drugs injured by, at University of Kansas (Kellogg). 1894. p. 31.	A9.7:7
Economic, of season, special (Davis). 1894. p. 198	A9 7.7
same (Johnson). 1900. p. 80	
Enemies of agriculture, conflict of Russian zyemstovs with (Mora-	220.0.20
chevski). 1902. p. 61.	A9.6:38
Farm observations in West Virginia on, some notes on (Hopkins).	
1896. p. 71	A9.6:6
Fertilization of an aroid plant by (Hubbard). 1895. p. 340	A9.7.7
Fertilization of muskmelons by, notes on (Rane). 1898. p. 75	A9.6:17
Foreign, desirability of an inspection system against (Howard).	A1.8:57
1897. p. 11	A1.6.01
same (Chittenden). 1900	A9.6:23
same, in Florida (Ashmead). 1887. p. 9	A9.3:14
Hemipterous, record of some experiments relating to effect of	
punctures of some, upon shrubs, fruit, and grains, 1886 (Web-	
ster). 1887. p. 54	A9.3:13
Hop plant, insects affecting (Smith). p. 393	A1.1:884
same (Howard). 1897. p. 40	A9.6:7
How they affect health in rural district (Howard). 1902	A1.9:155 A9.7:7
Importation and repression of, destructive (Webster). 1895. p.	A0.1.1
79	A9.6:2
Injuries from. See Crops.	
Injurious—	
commerce and (Howard). 1895. p. 332	A9.7:7
early published references to some of our (Webster). 1892.	
p. 262	A9.7:4
hibernation of, temperature experiments as affecting received	10.00
ideas on (Howard). 1897. p. 18irrigation and (Howard). 1890. p. 215	A9.0:9
laws, recent, against, with laws relative to foul brood in North	A9.7.2
America (Howard). 1898	A9.6:13
legislation against, compilation of laws and regulations in	
U. S. and British Columbia (Howard). 1895	A9.3:33
list of principal—	
1899. p. 745	A1.10:899
1900. p. 725 1901 (Chittenden). p. 674	A1.10:900
1901 (Unitional). p. 6/4	A1.10:901
methods of controlling, with formulas for insecticides— 1894 (Marlatt). p. 572	A1 10.804
1001 (mailant). p. 012	ALLIAV.OUT

	INGOX Classification no.
Insects—Continued	Clessincation Ed.
Injurious—Continued	
methods of controlling, etc.—Continued	
1895. p. 580	
1897. p. 635 1898. p. 657	A1.10:897
methods of studying life histories of, notes on (Howard).	A1.10:898
1893. p. 82	A9.7:6
new, of year (Riley). 1892. p. 16.	A9.7:5
note on, 1863. No. 3. p. 14	A27.9:1
some of our, early published references to (Webster). 1892.	1074
p. 323	A9.7:4
Laisser-faire philosophy applied to insect problem (Marlatt).	
1899. p. 5	A9.6:20
1899. p. 5  Lantern trap for, successful (Gillette). 1897. p. 75  Little-known of economic importance notes on some (Johnson)	A9.6:9
inter-known, or economic importance, nows on some (common).	4000
1897. p. 83	A9.6:9
Millet, insect injury to (Chittenden). 1898. p. 84	A9.6:17
sion relative to. 1883	A9.3:2
same. 1884	A9.3:4
Miscellaneous report on (Comstock). p. 195	A1.1:881-2
same. p. 195	A9.1:882
North American, enumeration of published synopses, catalogues,	A9.3:19
and lists of, etc. 1888	A27.9:4
same. 1891 (Ormerod). p. 36	A9.7:4
Nursery stock, principal insects liable to be distributed on (Banks).	
1902	A9.6:34
Orange and other plants of citrus family, with practical sugges-	100-0-1
tions for their control or extermination (Hubbard). 1885	A9.2:Or1
report on predaceous and, in applied entomology (Riley).	
1893. p. 130	A9.7:6
studies of predaceous and, in New Zealand, Australia, and	
adjacent islands (Koebele). 1893	A1.8:51
Petroleum, crude, and its effects upon, notes on (Smith). 1901.	A 10 2:00
p. 176	A10.3:99
1902	A9.6:32
Pine tree, observations on certain (Felt). 1902. p. 103	A9.6:37
Plants and, some interrelations of (Riley). 1892. p. 358	A9.7:4
Predaceous—	10.7.0
economic value of (Smith). 1893. p. 142	A9.7:6
p. 130	A9.7:6
studies of parasitic and, in New Zealand, Australia, and adja-	
cent islands (Koebele). 1893	A1.8:51
Predatory—	10.50
important, report of. 1893. p. 6	A9.7:6
which affect usefulness of scale-feeding coccinellidæ (Marlatt).  1902. p. 84	A9.6:37
Rose, violet, and other ornamental plants, some insects injurious	110.0.01
to (Chittenden). 1901	A9.6:27
Senses of, report of (Riley). 1894. p. 33	A9.7:7
Shade tree. See Shade-tree insects.	AO 6-00
Spruce in Northeast, insect enemies of (Hopkins). 1901	A9.6:28
1883. p. 286	A8.1:3
1883. p. 286	A1.9:120
same, p. 121	
Vegetable crops, insects injurious to (Chittenden). 1902	A9.6:33
Vegetable products, stored, some little-known insects affecting	
(Chittenden). 1897	A9.6:8
1883. p. 35	A9.3:1
	, · · · · · · · ·

A9.6:9 A9.6:17

A9.6:27

A9.6:22 A9.6:30 A1.1:884 A1.1:885 A1.9:132 A13.3:22

Insects—Continued
Vernacular names of (Gillette). 1897. p. 32
same (Doran). 1898
Violet, rose, and other ornamental plants, some insects injurious
to (Chittenden). 1901
Weather and, observations during season of 1899 (Chittenden).
1900. p. 51 same, 1900 (Chittenden). p. 63
Wheat, fall, insects affecting (Webster). p. 383
Wheat, growing, insect enemies of (Marlatt). 1901.
White pine, insect enemies of (Chittenden). 1899. p. 55
See also Agromyzide — Anarsia lineatella — Anthomyia — Aphe-
lenchus olesistus — Aphididæ — Aphis — Apple-tree borers —
Apple-tree weevil — Apple-twig insect borer — Aquatic bug —
Argyresthia — Arkansas — Army worm — Asiatic ladybird —
Asopia costalis (clover hay worm)—Australia—Australian lady-
bird — Australian lamellicorns — Axima — Bahamas — Bean
weevil — Bees — Beet insects — Beet leaf pegomyia — Beetle —
Belvosia — Bibioalbipennis — Blackberry borers — Blastophaga
psenes — Blood louse — Boll worm — Bot — Box-elder plant-
bug — Braconidæ — Brazil — Bronze apple-tree weevil — Bru-
chus—Bryobia—Bucculatrix canadensisella—Buffalo-gnats—
Buffalo tree-hopper—Butterfly—Cabbage worm—Cacocia
cerasivorana — California — Canada — Canker-worms — Cater-
pillar — Cattle tick — Cecidomyians — Cecidomyiid — Centi-
pede—Cereals—Changa—Chestnut borer—Chicago Worlds'
Columbian Exposition—Chicken tick—Chilo saccharalis—
Chinch bug—Chionobas macounii—Chrysalis—Cicada—Cim-
bex — Clisiocampa Americana — Clover-mite — Clover-seed
caterpillar — Clover-seed midge — Cockroaches — Cocoanut
mealy-wing — Colaspis flavida — Coleoptera — Colorado —
Cone-nose — Corn bill bugs — Corn crambid — Corn-feeding
syphus-fly—Corn-root aphis—Corn-root web-worm—Corn
stalk-borer — Cossidæ —Cotton army worm — Cotton caterpil-
lars — Cotton cutworm — Cotton insects — Cotton or melon
plant-louse—Cotton worm—Cottontail bot—Cotton stainer—
Cotton wood borer — Cranberry fireworm — Cranberry gall fun-
gus — Cranberry girdler — Cranberry leaf-galls — Crane-fly —
Crickets—Cryptophasa unipunctata—Curculio—Currant stem
girdler — Cut-worm — Cypress twig borer — Cyrtoneura —
Delaware — Dendrotettix — Dermestes vulpinus — Digger-
wasp — Diptera — Dipterous insect — Dipterous leaf-miners —
Dogwood saw-fly — Elm insect — Encyrtid — Entilia sinuata —
Erysipheæ — Eumænsatala — Europe — Eustrotia caduca —
Fall army worm — Fleas — Flies — Florida — Fluke-worms —
Flukes and tapeworms of cattle—Forest trees—Forests—
Fruit-worm — Gall makers — Garden insects — Garden pest —
Georgia — Good Hope, Cape of — Grain — Grain louse — Grain
plant louse — Grain toxoptera—Grape—Grapevine hopper—
Grass insects — Grasshoppers — Grasses — Green clover
worm—Green pea louse—Guava mealy wing—Hairy cat-
erpillars — Harlequin cabbage bug — Hemipterous insects —
Hen flea — House ants — House centipede — Household in-
nen nea — nouse ants — nouse centipede — nousenoid in-
sects — Hydrocyanic acid gas — Hymenoptera — Insect borers — Insect life — Insect pests — Insect vivaria — Insec-
ticidos Iorro Inventos ingests Innances posab fruit
ticides — Iowa — Japanese insects — Japanese peach fruit-
worm — Kidney worm of swine — Kissing-bug — Larvæ —
Lepidopterous insect — Lestophonus — Library pest — Ligni-
vorous insect — Locusts — Lucilia nobilis — Lysiphlebus — Maryland — Massachusetta — Moaly, buce — Maaly, wing —
Maryland — Massachusetts — Mealy bugs — Mealy-wing —
Mediterranean flour moth — Membracidæ (tree hoppers) —
Mexico — Michigan — Mississippi — Missouri — Mite — Mole
cricket — Monephora bicinta — Monomorium pharaonis —
Morelos orange fruit-worm — Mosquito — Moths — Myrio-
pods — Nebraska — Nematode leaf disease — New Jersey — New Mexico — New York State — New Zcaland — New
Hew Mexico — New Tolk State — New Zonand — New

	Classification
Insects—Continued	
Zealand katipo — Norway and Sweden — Ohio — Orange —	
Orthezia insignis — Orthoptera — Paper-making wasp — Par-	
asites — Parsnip web-worm — Pea louse — Peach curculio —   Peach twig-borer — Pear insect — Pear-leaf blister mite —	
Pear midge — Pediculi — Pediculidæ — Phosphorescent my-	
riopods — Poisonous spider in Madagascar — Pronuba — Pul-	
vinaria acericola — Purslane caterpillar — Red ants — Red	
spiders — Roaches — Rye gall-gnat — Scale insects — Scepsis	
edwardsii — Schizoneura panicola — Scorpions — Shade-tree	
insects — Six-spotted mite — South African ticks — Southern	
grain louse—Spiders—Squash bug—Squash-vine borer—	
Stalk worm—Stibadium spumacum—Stomata—Sugar-beet	
web worm — Syntomeida-epilais — Tarantulas — Tasmania —	
Texas—Thalessa—Thripidæ—Tiger swallow-tail—Tineid—	
Tortricid — Toxoptera — Tree crickets — Tremex — Twig prun-	
ers — Tyloderma — Typhlocyba — Vanessa antiapa — Vanessa	
Californica — Vedalia cardinalis — Viviparous cockroach — Walnut spanworm — Water bug — West Virginia — Western	
cricket — "Wheel bugs" — White ants — White grubs —	
Woolly aphis — Xanthium trypeta — Xiphidium ensiferum —	
Yucca insects.	
Inspectors, general order to, relative to humane treatment of ani-	
mals. May 13, 1896	A1.2:In7
Institutions, public, dietaries in (Atwater). 1901. p. 393	A1.10:901
Instrument room or division circulars	A29.11:
Insurance, hail, notes on (Abbe). 1901. p. 219	A29.6:29.
Interior Department, relation of agricultural and mechanical colleges	110010
to, 1893 (Holcomb). p. 114	
Internal revenue, 1863-65. p. 146	A27.8:4
Interstate convention of cattlemen, 1890. See Fort Worth.	A0.7.00
Interstate Cotton Growers' Protective Association, officers of. 1901.	
p. 637	A1.10:901
Intestinal fever in swine. See Hog cholera.	
Invalid and infant foods, analysis of, provisional method for (Wiley).	
1902. p. 41	A7.3:65
Inventions:	A 1 1 007
American, for cultivation by steam, history of (Brainerd). p. 253.	
Recent, for insect destruction (Breed). p. 323	A1.1:070 A4.1:901_9
Same (Norgaard). 1893. p. 39	A4.3:2
Iowa:	114.0.2
Chinch-bug observations in, in 1894 (Osborn). p. 230	A9.7:7
Chinooks in, notes on (Abbe), 1897, p. 545	A29.6:25
Farm resources and products of. 1868. p. 202	A27.9:6
Fungous diseases of, new (Pammel). 1891. p. 95	A28.5:7
Grasses and forage plants of, notes on (Pammel). 1897	A3.3:9
Hog cholera and swine plague investigations in, preliminary re-	A 4 1.000
port (De Schweinitz). p. 501 Hog cholera in (Niles). p. 500	A4.1:099 AA 1.909
Insects of (Osborn)—	W4.1.090
1887. p. 154	A1.1:887
1889. p. 18	
1890. p. 57	
1891. p. 57	A9.3:26
1892. p. 42	A9.3:30
1893. p. 46	A9.3:32
Insects of, as reported to Association of Economic Entomologists	
(Osborn)— 1892 p. 111	AQ 7.5
1892. p. 111 1893. p. 193	A9.7:6
1896. p. 78	A9.6:6
1896. p. 78  Meteor of March 27, 1894, in (Abbe). p. 128  Meteorological records in, notes on (Abbe.) 1899. p. 17	A29.6:22
Meteorological records in, notes on (Abbe.) 1899. p. 17	A29.6:27

Index	Classification no.
Irrigation—Continued	CIESPIECESSON IN
Montana, investigations in, 1901 (Fortier). p. 225	A10.3:119
Nevada, investigations in (Wilson). 1902. p. 147	A10.3:104
New Jersey, report on (Voorhees). 1900	A10.3:87
same (Voorhees). 1902. p. 353	A10.3:119
1897	A10.3:36
New Mexico, 1901 (Reed). p. 37	A10.3:119
Officials and associations, list of. 1901	A1.10:901
Orchards, methods in (McClatchie). 1900. p. 91.	A10.3:76
Pecos River and its tributaries, New Mexico (Reed). 1902. p. 61. Possible and actual influence of, on insect injury in New Mexico	A10.3:104
(Townsend). 1892. p. 78	A9.7:5
Practical, report on (Johnston and Stannard). 1900. p. 491	A1.10:900
Public control of (Mead). 1901. p. 680	A1.1:867
Report on (Poston). p. 193	A1.1.001
North Carolina, South Carolina, and Georgia (Keeney). 1902.	
p. 59	A10.3:113
United States. 1902	A10.3:113
uplands of Louisiana and Texas (Bond). 1902. p. 11	A10.3:113
Rise and future of, in U. S. (Mead). 1899. p. 591	A1.10:899 A10.3:73
Salinas Valley, Cal., problems in (Marx). 1901. p. 193	A10.3:100
Salt River Valley, Arizona, investigations in, 1900 (Code). p. 83.	A10.3:104
same, 1901 (Code). p. 51	A10.3:119
same, 1901 (Code). p. 51. San Joaquin River, Cal. (Soulé). 1901. p. 215.	A10.3:100
Southern States, some of. 1891. Pt. 1. p. 323	A15.2:1r7*
Study of recent progress in. 1897. p. 17	A1.9:00 A1.1:971
Systems of different countries. p. 275.  Theories and practices (Charpentier de Cossigny). 1891. p. 268.	A15.2:P94 <sup>1</sup>
United States, testimony of Elwood Mead before U.S. Industrial	
Commission, June 11 and 12, 1901. 1901.	A10.3:105
United States (Hinton). 1887. United States in 1890, progress report (Hinton). 1891	A15.2:117 A15.2:P941
Use of water in, report of investigations made in 1899, including	A10.2.1 01
reports by special agents and observers. 1900	A 10.3:86
Washington, use of water in, 1901 (Waller). 1902. p. 191	A10.3:119
Water measurements for (Abbe), 1897, pp. 208, 545	A29.6:25
Water supply and, in Mexico. 1885. p. 223	A 10.2:11/
Wheatland, Wyo., use of water for (Johnston). 1902. p. 207 Winter—	A10.5.104
note on (Abbe), 1900, p. 17	A29.6:28
of deciduous orchards. p. 12	<sup>1</sup> A1.9:144
Wire in, use of, report on (Betts). 1899. p. 301	A29.6:27
same (Abbe). 1899. p. 473	A 10.3-119
Yakima Valley, Wash., use of water in (Waller). 1902. p. 241	A10.3:104
See also Artesian and underflow investigation—California—	
Draining — Wyoming.	;   
Irrigation and cultivation of soil thereby, physical data; conditions	A 15 O.T73
and progress within U.S. for 1891 (Hinton)	A15.2:Ir7 <sup>2</sup>
1894. p. 24	A29.3:14
1894. p. 24 Irrigation and land drainage, list of references to publications relating	
to (Hedrick). 1902	A17.3:41
Irrigation conference, 1890. See Melbourne, Australia.	
Irrigation congress, 1900. See Chicago, Ill., national good roads and	
irrigation congresses. Irrigation Inquiry Office, Agriculture Department	A15.
Irrigation investigations. See Irrigation.	
Irving, W.:	
Gage canal Riverside California duty of water under—	110000
1899. p. 131	A10.3:86
1900. p. 137	A10.5:104 A10.3:110
1899. p. 131 1900. p. 137 1901. p. 146 Isabel Island, Mexico, reptiles of (Stejneger). 1899. p. 63	A5.5:14
The second of th	-

	Classification no.
Isabella grape in South America. 1866. p. 426	A27.9:4
Isabella grape in South America. 1866. p. 426	
Agricultural investigations in (Evans). 1901. p. 503	A1.10:901
Agriculture in (Cook). 1901. p. 349	A1.10:901
Sketches of. 1901. p. 685	A1.10:901
Isobars, high-level, report on (Abbe). 1896. p. 419 Isobars and their accuracy (Abbe). 1896. p. 334	A29.6:24
Isobars and their accuracy (Abbe). 1896. p. 334	A29.6:24
Isotherms for given altitude, notes on (Abbe). 1900. p. 166	A29.6:28
Italian honey-bee, or culture and Italianization of native or black honey-bee (Colvin). p. 530.	A1.1:863
Italy:	11004
Agricultural education in (Paparelli). 1893. p. 326	
	A10.6:4
Agriculture in— 1871. p. 204	A 27 Q ∙Q
1876. pp. 425, 497.	A27.9:14
1876 (Andrews). p. 283	A1.1:876
1876 (Andrews). p. 283 1885. No. 19. p. 36.	A27.9:23
American pork in, interdiction of. 1889. p. 129	A27.9:27
Hemp in, special consular report on growth of (Gardini). 1897.	
p. 15	A11.5:11
Irrigation in. 1891. p. 278.	A15.2:P94 <sup>4</sup>
Mountains of, meteorology of (Denza). 1896. p. 659	
Fairchild. 1900	
Sorghum in. 1884. p. 77. Wool in, production and prices of. 1895. p. 144.	A 1.5:5 A 97 Q.99
See also Catania — Como — Milan — Sicily.	A21.0.00
Itch. See Texas itch.	
Ithaca, N. Y.:	A O. 7.1
Simulium common at, notes on (Howard). 1888. p. 99	A9.7:1
Swine-plague near (Law)—	A 1 R-19
1879. p. 56 1880. p. 68	A1 6.22
1881. p. 81	
Ives, W. J., lards sent by, composition of. p. 188	A7.1:889
Ixoles bovis, remarks on (Riley). 1869. p. 168.	A1.2:C29 <sup>1</sup>
Ixophorus, genus (Scribner). 1897. p. 5.  Ixtle fiber, letter on (Murphy). 1869. p. 232	A3.3:4
Ixtle fiber, letter on (Murphy). 1869. p. 232	A27.9:7
Same. 1870. p. 354.	A27.9:8
Jack rabbits of U. S. (Palmer)	A5.3:8
Jack-o-lantern, or ignis fatuus (Abbe). 1897. p. 211	A29.0.20
p. 405.	A1.1:862
See also, as joint author, Moorhead, J. K.	
Jackson, J. F.:	
Address of, before convention of National League for Good Roads,	
Washington. 1893. p. 30	A10.3:14
Roads, good, how to procure means to build. 1895. p. 29	A22.3:11
Jackson, J. F. B. Road improvement in Jefferson County, Ala-	A22.3:23
bama. 1902. p. 31	A22.3.23
Yukon Valley, preliminary report on. 1898. p. 35	A10.3:48
Jackson, W. H. Blood horse, essay on. 1882. p. 50	
Jacobs, Miss Emma S. Domestic science, teaching, in rural districts.	- · <del>-</del>
1902. p. 96	A10.3:120
Jaeger, Hermann:	
Grapevine, downy mildew and black-rot of, treatment of, with salts of copper, at Neosho, Mo.— •	
1887. p. 29	A6.3:5
1888. p. 29	A6.3:10
1889. p. 65	A6.3:11
Jaffa, Myer E.:	A10 2.190
California, farmers' institute work accomplished in. 1902. p. 16.	A10.3:120

Index	Classification no.
Jaffa, Myer E.—Continued	
California eggs, food value of. p. 510	A4.1:898
Fruitarians and Chinese, nutrition investigations among, at Cali-	
fornia Agricultural Experiment Station, 1899–1901	A10.3:107
Nutrition investigations at California Agricultural Experiment	A 10 9.94
Station, 1896–98	A10.3.01
Cinchona planting in (Parry). 1871. p. 120.	A27.9:9
Climatological data for—	
1897 (Abbe). pp. 259, 308, 356, 444	A29.6:25
1898. pp. 16, 60, 210, 308	A29.6:26
1901 (Hall). pp. 214, 253, 304, 352, 407, 497, 595	A29.0:29 A90 6:20
1902. p. 69 1902 (Cousins). pp. 444, 487	A 29 6:30
Hurricanes in, 1689–1880, note on (Abbe). p. 550	A29.6:28
Meteorological service, note on (Abbe). 1902. p. 183	A29.6:30
Rainfall of May, 1870-98, in, notes on (Abbe). p. 415	A29.6:26
same, 1899 (Abbe). p. 206. Sun-spot period and temperature and rainfall of (Hall). 1901.	A29.6:28
p. 503	A29.6:29
Thunderstorms and clouds in (Abbe). 1896. p. 15	A29.0:28 A29.6:24
Weather bureau high level stations, note on (Abbe). 1897.	1120.0.21
	A29.6:25
p. 399	A29.6:26
same, 1899 (Abbe.). p. 161	A29.6:27
same, 1899 (Abbe.). p. 161  Jamaican coccidæ, food plants of some (Cockerell) 1893. pp. 158, 245	A0 7.5
James, C. C. Agriculture, teaching, in public schools. 1902. p. 84.	A9.7:0 A10.2:190
James, E. J. Government in its relation to forests. 1888. p. 23	A13.3·2
James, Joseph F. Fossil fungi, notes on, 1891. p. 268	A28.5:7
James River, Va. Freshets in, 1870–99 (Abbe). p. 156	<b>A29.6:28</b>
Same, 1893-96 (Evans). p. 590	<b>A29.6:28</b>
	A 00 - 0-07
Janney, Samuel M. Virginia; her past, present, and future. p. 17.	A29.6:27
January, weather conditions for, statement of average (Garriott). p. 21.	A 29 6 29
Japan:	1150.0.50
Agriculture in. 1873. (Capron.) p. 364	A1.1:873
same 1891 n 563	A 27.9:29
American butter in (Gowey). p. 521	A4.1:898
Cereal crops. 1893. p. 270 Flora of (Hogg). 1875. p. 178	AZ7.9:3Z A 97 O-12
Leather industry in (Lyon). p. 526	
Locust in, migratory, occurrence of, in 1883 (Brooks). App. p. 59.	A8.1:3
Our trade with, 1889–1899. (Hitchcock)	A12.3:18
Rice and silk culture, and agricultural education in (Tamari).	
1885. p. 187	A1.7:9
San Jose scale in, preliminary report on (Marlatt). 1902. p. 41. Tea culture in. 1872. p. 286	A9.0:31 A27.9:10
Treaty of Shimonoseki between China and, Apr. 17, 1895, and	A27.0.10
possibilities of U. S. trade with	A12.4:6
Weather bureau of (Wright). 1900. p. 381	A29.6:28
Winds of Arizona and (Abbe). 1895. p. 255	A29.6:23
See also Marlatt, Charles Lester.  Japan current, studies of (Abbe). 1898. p. 366	A 90 a .9a
Japanese Coccidæ, some new species of, with notes (Cockerell).	A28.0.20
1896. p. 47	A9.8:4
Japanese insects:	
Injurious, liable to be introduced into United States. 1896	A9.8:4
Injurious to fruit, two (Matsumura). 1898. p. 36.	A9.6:10
Japanese oak-feeding silkworm, notes on cultivation of (Webster).	AQ 7.1
1889. p. 273	A27.9·10
Japanese peach fruit-worm, report on. 1889. p. 64	A9.7:2
Japanese silkworm, parasite of, Ugimyia sericarlæ rond. (Mik).	
1891. p. 113	A9.7:4

	<b>T3</b>
	Index Classification no.
Japanese strongyle (Strongylus subtiles) which may possibly occur	44005
in returning American troops (Stiles). 1902. p. 41	
Jaques "cream pot" stock (Dodge). p. 292	A1.1:866
See also "Cream Pot" stock.  Jarring for curculio on an extensive scale in Georgia, with list of insects caught (Scott and Fiske). 1902. p. 24	<b>A9.6:3</b> 1
Java:	110.0.01
Dutch East Indies, sugar-cane borers of (Zehntner). 1898. p. 32	A9.6:10
Sugar in, diffusion and carbonatation of, extracts from report on (Lucassen). 1885. p. 49	A7.3:8
Jefferson, Mark S. W.: Rain gages, reduction of records of. 1901. p. 499	
Rainfall of Leeward and Windward islands. 1901. p. 56	A29.6:29
Jefferson, Thomas, as meteorologist (Randolph and Francis). 1896. p. 456	A29.6:23
Jefferson County, Alabama, road improvement in (Jackson).	
Jefferson County, Colorado, agricultural resources of (Berthoud).	A22.3:23
1869. p. 381*  Jefferson County, Missouri, swine-plague in (McNutt). 1879.	A27.9:7
p. 173.  Jefferson Memorial and Interstate Good Roads Convention, Char-	A1.6:12
lottesville, Va., Apr. 2-4, 1902, proceedings of. 1902	
Jefferson memorial road, Va. (Shaw). 1902. p. 27	A22.3:25
Jenkins, Edward Hopkins:	  - 
Address of, as president of Association of Official Agricultural Chemists at fourth annual convention. 1887. p. 6	A7.3:16
Agricultural experiment work, cooperation of agricultural experi-	
ment stations with farmers' organization in. 1895. p. 50 Cigar-wrapper leaf, methods of experimenting with. 1901. p.	A10.3:24
Jenkins, Edward Hopkins, and Winton, Andrew Lincoln. Feeding	A10.3:99
stuffs, American, compilation of analyses of. 1892	A10.3:11
Jenks, Charles N. Sheep husbandry in Texas. 1877. p. 122	A1.2:Sh3
should [they] be of some distinctive color to more readily	400.0.04
attract attention? 1899. p. 53	A29.3:24
Road improvement in Florida, progress of. 1901. p. 60	A22.3:21
Speech of, as permanent chairman, International Good Roads Congress, held at Buffalo, N. Y., Sept. 16-21, 1901. p. 17	
Jensen, Charles A. See, as joint author, Gardner, Frank Duane. Jensen, Charles A., and Olshausen, B. A.:	
Soil survey of Boise area, Idaho. p. 421	A26.5:901 1
Soil survey of Yakima area, Washington. p. 389	A26.5:901 1
1898. p. 91	A 10.3:49
Jensen process, new method of treating grain by, for prevention of smut (Galloway). 1891. p. 372	A28.5:7
Jenter, C. G. Acid and alkali solutions, standardizing the more common, results obtained in. 1893. p. 43	
Jerked beef, or tasajo, manufacture and exportation of by River Plata countries. p. 399	ł
Jerusalem artichokes:	
Description of. 1898. p. 10 For pigs. 1899. p. 20	A1.9:73   A1.9:92
Jesunofsky, L. J. Frost formation, some peculiarities in, over coast region of South Carolina. 1902. p. 479	A29.6:30
Jewell, L. E. Aqueous vapor, relative qualities of in atmosphere, determination of, by means of absorption lines of the spectrum.	A20.0.00
1896 Johns Hopkins University, meteorology at (Fassig). 1898. p. 306.	A29.3:16 A29.6:26
*By a misprint, this page number appears twice.	1320.0.20

\*By a misprint, this page number appears twice.

AIIGUA	Classification no
Johnson, A. L. Timber trestle bridges, economical designing of	A13.3:12
Johnson, Benjamin P., short biography of. 1869. p. 136	
Johnson, Edmund. Agriculture of Tuspan, Mexico. 1874. p. 498.	A27.9:12
Johnson, J. B.:	
Woods—	
mechanical tests made at Washington University testing lab-	A13.3:8
oratory, St. Louis, Mo. 1893. p. 3. mechanical tests, results of. 1893. p. 22.	A13.3:8
See also, as investigator, Fernow, Bernard Eduard.	1110.0.0
Johnson, Lawrence:	
Boll-worm (Heliothis armigera), report on. 1880. p. 150	A1.1:881-2
same, p. 150	A9.1:882
Cotton worm, boll worm, and other insects, report on. 1883. p. 53.	A9.3:1
Johnson, R. E. Decimal system of weights and measures. 1864.	A 07 0.0
No. 6. p. 20  Johnson, S. W. Address of, as president of Association of American	A27.9:2
Agricultural Colleges and Experiment Stations at 10th annual	
convention, 1896. p. 43	A10.3:41
See also, as joint author, Atwater, Wilbur Olin.	
Johnson, Willard Drake. Clouds, umbrella, notes on. 1898. p. 207.	A29.6:26
Johnson, Willis Grant:	
Aphelinus fuscipennis, an important parasite upon San Jose scale	4000
in eastern United States. 1900. p. 73	A9.6:26
Emory fumigator; new method for handling hydrocyanic-acid gas in orchards. 1899. p. 43	A9.6:20
Entomological notes, miscellaneous. 1899. p. 62	A9.6:20
Green pea louse, destructive (Nectarophora destructor), for 1900,	110.0.20
notes upon. p. 55	A9.6:26
Hydrocyanic-acid gas—	
as remedy for San Jose scale and other insects. 1898. p. 39	A9.6:17
results with, for destruction of insects in large buildings.	4 7 0 0 00
1901. p. 166	A10.3:99
Insects— little-known, of economic importance, note on some. 1897.	
00 ' - I	A9.6:9
of economic importance for 1900, notes on. p. 80	A9.6:26
Maryland—	
entomological notes from. 1896. p. 63	A9.6:6
insects, principal injurious, of year, notes on. 1897. p. 80	
same. 1898. p. 92	A9.6:17 A10.3:99
Pea louse, destructive, new and important economic species of	A10.0.33
genus Nectarophora. 1899. p. 94	A9.6:20
Scale insects, new and old, notes on. 1896. p. 74	
Stalk worm, new enemy to young tobacco. 1899. p. 99	A9.6:20
Johnson grass, investigations made during season of 1901 (Ball).	44004
1902	A19.3:11
Johnston, C. T.: Irrigation discharge records and diagrams, computation and	
preparation of. 1900. p. 47	A10.3:86
Irrigation investigations for 1900, discussion of. 1902. p. 21	A10.3:104
Water for irrigation at Wheatland, Wyo., use of. 1902. p. 207.	
Water supply of Bear River and its diversion. 1899. p. 9	A10.3:70
Wyoming, duty of water in. 1900. p. 171	A10.3:86
Johnston, C. T., and Stannard, J. D.:	A1 10:000
Irrigation, practical. 1900. p. 491 Irrigation ditches, small, how to build. 1902	A1.10:900 A1.9:158
Johnston, Jos. F. Alabama, road improvement in, extract from	A1.5.100
governor's message. p. 1	A22.4:33
Joint-worm attack, apparent, some features of (Webster). 1892.	
p. 89	A9.7:5
Joint-worm flies. See Grass and grain joint-worm flies.	10700
Jones, Calvin C. Cotton as surplus crop. 1870. p. 36	A27.9:8
Jones, Edmund. Storms, distant, indicated by tides at New York.	A29.6:22
1894. p. 372  Jones, Francois S. Argentine Republic, cattle and cattle products of,	42 at U + U + ii 4
some statistics of. 1899. p. 515	A4.1:899
•	

	Index (Versidentian no.
Jones, Frank M. Dermestes vulpinus in goat skins. 1889. p. 63	Classification no. A9.7:2
Jones, Isaac. Alaska, interior of, reconnoissance along trail from	110.1.2
Eagle to Valdez. p. 283.  Jones, J. D. Cork oak, growth of in U. S. 1895. p. 9.	A10.1 2:901
Jones, J. D. Cork oak, growth of in U. S. 1895. p. 9	A13.3:11
Jones, J. L. Mule, its uses, how to breed, grow, prepare for the market, and sell. p. 335.	A4.1:891-2
Jones, L. R. Potato blight and rot, comparative test of fungicides	111.11.001 2
in checking. 1893. p. 89	A10.3:16
Jones, R. W.:	A8.1:4
Boll worm of cotton, report on. 1885. App. p. 17	A0.1.4
report of. 1883. p. 47	A9.3:1
Jones, T. C. Pacific coast, field crops and animal industry of. 1892.	A1 0.00
p. 59 See also, as joint author, Hilgard, Eugene Woldemar.	A1.8:20
Jones, Thomas C. Eggs, Madeira, exports of. p. 520	A4.1:900
Jones, William J.:	4074
Aletia, report on. 1885. App. p. 55	A8.1:4
p. 356	A9.2:C82
See also, as joint author, Huston, Henry Augustus.	
Jordan, whitman Howard:	
Agricultural experiment stations, American, growth and purpose in. 1901. p. 42	A10.3:99
in. 1901. p. 42. Dietary studies at Maine State college in 1895	A10.3:37
Digestion experiments, American, report on. 1896. p. 5	A10.6:6
Jordan, Whitman Howard, and Hall, Frank H. Digestibility of	A10.3:77
American feeding stuffs. 1900.  Journal of mycology, devoted to study of fungi, especially in their	A10.5:77
relation to plant diseases	<b>A28.5</b> :
Jouvea, leaf structure of (Ogden). p. 12	A3.3:8
Judd, Sylvester Dwight: Birds—	
as weed destroyers. 1898. p. 221	A1.10:898
as weed destroyers. 1898. p. 221 four common, of farm and garden. 1895. p. 405	A1.10:895
of a Maryland farm. 1902	A5.3:17
Food of nestling birds. 1900. p. 411	A1.10:900 A5.3:9
Sparrows, relation of, to Agriculture. 1901	A5.3:15
Judd, Thomas. Almond in southwest Utah and southeast Nevada.	
p. 55July, weather conditions for, statement of average (Garriott). p. 307.	A20.1:895 A29.6:29
Jumping mice of the genus zapus, revision of (Preble). 1899	
June, weather conditions for, statement of average (Garriott). p. 258.	
Jungfleisch, —, and Grimbert, —. Sugars, analysis of, some	A 7 0.00
facts relative to. 1890. p. 135  Jupiter, Fla. Precipitation at, 1889-91. p. 108	A7.3:28 A29.6:20
Jute:	
Bengal crop. 1888. p. 539	A27.9:26
Culture of ramie and. p. 261 same (Lefranc). 1873	
Culture, national importance, etc. (Waterhouse). p. 289	A1.1:876
same (Waterhouse). 1883	A1.8:30
Culture in U. S. 1871. p. 70	A27.9:9
same (Dodge). 1896	A27.5:10 A11.5:8
same. 1872. p. 490 same (Dodge). 1896. Introduction of. p. 171.	A1.1:871
same. p. 402. Louisiana. 1874. p. 389.	A27.9:9
United States and India. p. 294	AZ7.9:12 A1 1.874
See also Fibers — Flax — Hemp — Ramie and jute.	
Jute and other fibers in U.S. (Dodge). 1892. p. 91	
Same, 2d ed. p. 91  Juvisy, France, observatory of, physical and meteorological re-	A11.5:1
searches, principally on solar rays, made at station of agricul-	
tural climatology at (Flammarion). 1899. pp. 103, 203	A10.6:10

Ingex	Classification no.
Kenealy, James:	
Lightning recorders and their utility in forecasting thunderstorms.	
1902. p. 76	A29.3:31
Ohio. 1901. p. 355	A29.6:29
Ohio. 1901. p. 355	A29.6:25
Remedy, 11. 14. Cathe and sheep industry of Colorado. p. 607	A4.1:891-2
Kennedy, Patrick Beveridge:	
Caryopsis of grasses, structure of, with reference to morphology and classification	A3.3:19
Forage plants in Ontario, experiments with. 1899	A3.4:20
Grasses and forage plants, cooperative experiments with. 1900	
Saltbushes, report on. 1900	
Turkestan alfalfa. 1900	A3.4:25
Kennels, disinfection of, by fire (Stiles). 1902. p. 15	A4.3:35
Kenner, La., sorghum sugar, experiments at:	A 1 1.000
1888 (Stubbs). p. 273 same, with additional matter. p. 46	A1.1:888 A7.3:20
1889 (Wiley). p. 10	A7.3:20
1889 (Stubbs). p. 64	A7.3:26
1889 (Wiley). p. 21.	
Kent County, Md., soil survey of (Bonsteel). p. 173	A20.5:900-
Agricultural and mechanical college of. 1865. No. 6. p. 32	A27.9:3
Aurora in (Abbe). 1895. p. 297.	A29.6:23
Aurora in (Abbe). 1895. p. 297.  Farm resources and products of. 1868. p. 127  Farmers' institute work accomplished in (Nall). 1902. p. 23	A27.9.6
Gape disease of young poultry in (Garman). p. 504	A4.1:898
Good roads in, organizations for (Van Pelt). 1901. p. 81	A22.3:21
Highways, history of old and new systems (Crump). 1895	<b>A22</b> .3:13
Stock, sales of. 1870. p. 281	A27.9:8
Kentucky sheep, improved (Scott). p. 334	A1.1:866
Kenworthy, Charles J. Wool-growing in Australia. p. 204	A1.1:864
Kerkam's kites with rocket signals (Abbe). 1897. p. 206	
orange tree and cotton plant. 1883	
Kerosene emulsion:	
Experiments with (Osborn). 1891. p. 63	A9.7:4
Historic notes on (Cook). 1891. p. 62  Pyrethrum and (Riley). 1891. p. 32	A9.7:4
Remedy for white grubs. 1888. p. 48.	A9.7:1
Kerosene knapsack sprayer, modification of (Weed). 1895. p. 28	A9.6:2
See also Knapsack. Kerry breed of cattle (Howard). p. 313	A1 1.929
Kew gardens, England. 1870. p. 233	A27.9:8
Kew Observatory, change at, note on (Abbe). 1900. p. 67	
Key, Sothoron. See, as joint author, Hicks, Gilbert Henry.	
Key West, Fla.: Gulf stream near, drift of, note on. 1900. p. 210	A 29.6:28
Waterspouts at (Boynton). 1899. p. 351	A29.6:27
Kickbusch, F. W. Stettin, Germany, cost of hauling farm products	
over wagon roads at. p. 9.  Kidney worm of swine, our present knowledge of (Tayler). p. 612.	A22.7:27
Kiernan, John A. Cattle notes of southwestern Texas. p. 511	A4.1:899
Kilborne, F. L. Abortion in mares, outbreak of. 1893. p. 49	
See also, as joint author, Smith, Theobald.	
Kilborne, F. L., and Schroeder, Ernest C. Bovine tuberculosis in Soldiers' Home herd of 60 cattle, clinical notes on. 1894.	
p. 7	
Kilgore, Benjamin Wesley:	
Address of, as president of Association of Official Agricultural	
Chemists, at 17th annual convention. 1900. p. 7	A7.3:62
phoric acid by titration of yellow precipitate of. 1894. p. 100.	

	Classification no.
Kilgore, Benjamin Wesley—Continued	110000
Cotton-seed products, feeding value of. 1896. p. 385	A10.3:33
Fodders and green materials, fat in, preliminary report on estimation of. 1897. p. 98	A7.3:5
Phosphoric acid, Pemberton's method of determination, com-	217.0.0
parison of, with official method by Francis Bergami. 1894.	
p. 97	A7.3:43
Plant food, artificial requirements of soils. 1902. p. 73	A10.3:115
Kilgore, Benjamin Wesley, and Williams, C. B. Phosphoric acid,	
citrate-insoluble, comparison of results by old and new meth- ods for. 1894. p. 108	A7.3:43
Kilgore's modification of volumetric method of estimating phos-	111.0.10
phoric acid (Williams). 1901. p. 55	A7.3:62
phoric acid (Williams). 1901. p. 55	A5.4:10
Killin, Benton. Agriculture in Alaska, report on. 1898. p. 29	A10.3:48
Kimball, Herbert H.:	
Atmosphere, general circulation of, especially in Arctic regions. 1900. p. 408	A29.6:29
Civil service examinations for weather observers in U.S. Weather	A20.0.20
	A29.6:26
Bureau. 1898. p. 548. Climate of Antigua, W. I., seasonal variations in. 1890-1900.	
p. 168	A29.6:29
Earthshine, variability of, some causes of. 1901. p. 209	A29.6:29
Ice caves and frozen wells as meteorological phenomena. 1901.	A 90 R 90
p. 366 Meteorological notes, monthly	A29.6:
[Individual articles are entered in index under their specific subjects.]	1120.0.
Rainfall from convectional currents. 1900. p. 483	A29.6:28
Sun spots and weather, report on. 1901. p. 248	
Thunderstorm, automatic records of. 1899. p. 355	
King, Franklin Hiram:	
Ground water, fluctuations in level and rate of movement of,	
on Wisconsin Agricultural Experiment Station farm and at Whitewater, Wis., observations and experiments on. 1892	
Irrigation experiments in Wisconsin. 1902. p. 313	
Irrigation in humid climates. Dec., 1896.	A1.9:46
Irrigation in humid climates. Dec., 1896.  Lysimeter. What does a lysimeter teach? 1891. p. 106	A10.5:3
King, G. B. Horticulture, American, danger to, from introduction	A 1 0 0 00
of injurious scale insects. 1901. p. 171.  King, William M. See, for reports as Chief, Seed Division, Agri-	A10.3:99
culture Department, 1885–88.	A24.1:
King, William Rice. Orange, relative merits of various stocks of,	1121,1.
with notes on mal di goma and mutual influence of stock and	
scion. 1891	A20.3:4
Kingbird, food habits of (Barrows). p. 233	A1.1:893
Same, p. 233. Kings River, Cal.:	A5.1:893
Evaporation experiments on. 1901. p. 323	A10.3:100
Evaporation experiments on. 1901. p. 323	A10.3:100
Kingsessing and Tinicum meadow district, on Delaware River, drain-	
age of (Ludlow). 1884. p. 240.	A1.7:7
Kinney, Abbot: Eucalyptus, growth of, in U. S. 1895. p. 23	A13.3:11
Forests of Los Angeles, San Diego, and San Bernardino counties,	ALU.U.LI
Cal. 1888. p. 198.	A13.3:2
Kirk, Robert J. Horses, American, in Denmark. 1898. p. 53	A1.2:H78
Kirkland, Archie Howard:	
Arsenate of lead—	A Q . 8.90
improvement in manufacture of. 1899. p. 102 preparation and use of. 1897. p. 46 Brown-tail moth in Massachusetts, report on. 1900. p. 75	A9.0:20 A9.8:9
Brown-tail moth in Massachusetts, report on. 1900. p. 75	A9.6:26
Crapberry fireworm, probable remedy for, 1899, p. 53	A9.6:20
Insect pests, four imported, notes on, 1902. p. 93.  Insecticide, new, report on. 1896. p. 27.  Kirkwood, Mo., pyrethrum experiments at (Murtfeldt). p. 85	A9.6:31
Insecticide, new, report on. 1896. p. 27	A9.6:6
Same, p. 85	A1.1:881-Z A0 1:889
~·····································	410.1.002

	Classification no
Kissing bug, insects to which name became applied during summer	10000
of 1899 (Howard). 1900. p. 24.  Kitchen and table wastes, importance of loss of. p. 25	
Kite and balloon station near Berlin, Germany, note on (Abbe).	A1.9:69 A29.6:28
1900. p. 13 Kite wire, lightning on, notes on (Abbe). 1898. pp. 170, 257	A 29. 0.26 A 29. 6.26
Kites:	
Aerial voyages by, notes on (Rotch). 1900. p. 553	A29.0:28
Another use for, note on (Abbe). 1900. p. 252.	A29.6:28
Archibald on, report of (Abbe). 1897. p. 164	A29.6:25
Balloons and, results of work with, at Trappes, France, notes on	
(Abbe). 1899. p. 411	A29.6:24
Chicago conference, August, 1893, notes on (Abbe). p. 310	A29.6:25
Development of, by European scientists (Abbe). 1897. p. 58	A29.6:25
Experiments with, record of some (Eddy). 1898. p. 450	A29.6:26
Exploration of air with, progress in, at Blue Hill Observatory,	A 90. 0.00
Mass. (Rotch). 1898. p. 355	A29.6:26 A29.6:25
France, note on (Abbe). 1897. p. 490.	A29.6:25
German Antarctic expeditions, work in, notes on (Abbe). 1901.	2220.0020
p. 177	A29.6:29
Kerkam's, with rocket signals (Abbe). 1897. p. 206	A29.6:25
Madeira, work in, notes on (Abbe). 1898. p. 552	
Mechanics and equilibrium of (Marvin). 1897. p. 136	A29.6:25 A29.6:25
Meteorological observations with, at sea, notes on (Kimball).	1120.0.20
1901. p. 563	A29.6:29
Montana (Coe). 1898. p. 237	A29.6:24
New field for, in meteorology (Kimball). 1901. p. 419	
Observations of, 1898 (Frankenfield). 1898. Prize for flyers (Abbe). 1896. p. 374.	A29.5:F A29.6:24
Problem of, report on (McAdie). 1897. p. 246.	A29.6:25
San Francisco, Cal., experiments at (Hammon). 1896. p. 288.	A29.6:24
Spool, and kites with radial wings, notes on (Abbe). 1899. p. 154.	A29.6:27
Systematic exploration of atmosphere by means of, method for	10000
(Rotch), 1902. p. 66.	A29.3:31
Telephone (Abbe). 1898. p. 257	A29.6:26 A29.6:26
Temperatures obtained by, at Bergen Point, N. J. (Allen). 1898.	A20.0.20
p. 161 Use of—	A29.6:26
in exploration of upper air (Marvin). 1898. p. 201	A1.10:898
in meteorology, notes on (Abbe). 1896. p. 416.	A29.6:24
Used by Espy, note on (Abbe). 1897. p. 163	A29.6:25
Weather Bureau experiments (Marvin). 1896. pp. 113, 156, 199,	
238	A29.6:24
Weather Bureau kite, report on (Marvin). 1896. p. 418	A29.6:23
(Abbe). p. 413	A29.6:27
Within a thunder cloud (Hovenden). 1898. p. 251	
Work in, progress in, notes on (Abbe). 1898. p. 552	A29.6:26
See also Bayonne, N. J. — Blue Hill Meteorological Observatory — Dansey's — Fisher, George — Franklin Kite Club — Newton,	
Isaac.	
Kieldahl-Gunning method and a modification applicable in presence	•
of nitrates (Voorhees). 1892. p. 85	A7.3:35
Kjeldahl method, estimation of casein by (L'Hote). 1889. p. 170.	A7.3:24
See also Distilling flask — Nitrogen.  Klamath Indians of Orogon plants used by notes on (Covilla)	
Klamath Indians of Oregon, plants used by, notes on (Coville).  1897. p. 87	A6.5:5
Klee, W. G.:	2201010
Date, culture of. 1883	A1.8:24
Fruits, tropical and semitropical, of California, Arizona, and New	100 0 -
Mexico. 1891. p. 111.	A20.3:1
See also, as joint author, Behr, Herman.	

	Classification no.
Klein, J. Milk, estimation of fat in, by Soxhlet's areometric	A 7 9.01
method. 1888. p. 163	
German agriculture, letter on. 1865. No. 6. p. 6.	A27.9:3
Stettin, international fair at. 1865. No. 7. p. 6	A27.9:3
Meteorological observations in, note on (Abbe). 1898. p. 253	A29.6:26
Weather Bureau observations in (Myers). 1898. p. 209 Klotz, O. J. Langsdorf, voyage of, 1803-7, notes from. 1898. p. 463.	A29.6:26 A29.6:26
Knapp, J. G. Climate and products of Florida, statement of. 1885.	
No. 19. p. 23	A27.9:23
Agricultural resources and capabilities of Porto Rico, with special reference to establishment of an agricultural experiment sta-	
tion on the island. 1901	A10.2:P83
1885. p. 163	
Rice culture in U. S., present status of, 1899same, 1900.	A6.3:22 A1.9:110
Knapsack kerosene attachment, some experiments with (Weed).	
1895. p. 26  Knapeack sprayer, new, description of (Galloway). 1891. p. 51	A9.6:2 A28.5:6
See also Japy knapsack sprayer.  Knight, O. W. Sugars, estimation of, by weighing precipitated cu-	
prous oxid as such and as metallic copper, notes on. 1901.	47.0.00
p. 111 Knotweed, giant, or sachaline, circular relative to (Scribner). 1895.	A7.3:62 A6.4:5
Knowles, Etta L. Fungi, abnormal structures in, induced by Usti-	
lago zeæ mays, study of. 1889. p. 14	A28.5:5 A10.4:3
Koebele, Albert:	11101110
Australia, report of trip to, to investigate natural enemies of fluted scale. 1890	A9.3:21
California insects, in 1889, report on. p. 85	A9.3:22
Cottony cushion-scale and red scale, experiments on. p. 558	A1.1:886
Entomological work in Oregon and California, notes on Australian importations. 1893. p. 33.	A9.3:32
Hop [plant-] louse, experiments with, in Oregon and Washington.	10.7.6
1893. p. 12  Locusts near Folsom, California. 1885. p. 308.	A9.7:6 A1.1:885
Parasitic and predaceous insects in New Zealand, Australia, and	
adjacent islands, studies of. 1893	A1.8:51
notes on California insects in 1890. p. 37	A9.3:23
Scale-insects, experiments against. p. 143	A1.1:887   A9.7:4
See also Coquillett, Daniel William.	, <del>-</del>
Koeppen, F. T. Hessian fly, in Russia, translated by C. F. Gissler.  1883. App., p. 41	A8.1:3
Koeppen, W.:	1101110
Climatology, present condition and recent progress of. 1896. p.	A29.6:23
Weather predictions, best method of testing. 1894. p. 29	A29.3:11 <sup>1</sup>
Kremser, Victor: Atmosphere, upper, study of, by means of balloons. 1896. p.	
725	A29.3:11 <sup>3</sup>
Rainfall and charts of rainfall. 1902. pp. 233, 243.  Krichelt, F. W. River and flood service, monthly notes on, June-	A29.6:30
July, 1898	A29.6:26 A29.6:27
Krug, William Henry:	
Dextrine, starch, dextrose, sucrose, and gum arabic, mixture of,	↑ <b>↑</b> 7 <b>२</b> • <b></b> 42
attempt to analyze. 1894. p. 167	A7.4:7
Hide-powder tests, comparative, report on. 1901. p. 133	A7.3:62
Liège, Belgium, International Association of Leather Trade Chemists, 1901, report on meeting of. 1902. p. 147	A7.3:67
, , ,	

	Classification mo.
Krug, William Henry—Continued	
See also, as collaborator and as joint author, Wiley, Harvey Washington.	
Kühn, Julius. Animals, domestic, feeding standards for. 1893.	
p. 6.	A10.6:4
Kühn, M.:	
Milk— curdled, fat in, estimation of content of. 1890. p. 162	A7.3:24
fat in, estimation of content of, by method of Soxhlet-Engs-	
tröm and Schmoeger-Neubert. 1890. p. 158.	A7.3:24
Kuhn, von. German army horses, requirements for. 1898. p. 31. Kuro siro, chinooks versus, notes on (Abbe). 1898. p. 114	A1.2:1178 A29.6:26
Labor, distribution of, in India and U.S. 1887. p. 366	A27.9:25
Laboratory method of experimentation in economic entomology	40 7 0
(Woodworth). 1891. p. 266	A9.7:3
Lace, description and history of (Wilson). 1897. p. 359	A11.5:9
Lacey, R. S. Cabbage worms, remedies for. p. 133	A1.1:883
Same, p. 133. Lachnosterna, notes on (Perkins). 1892. p. 389	A9.1:883
Lachnosterna damage, case of. 1889. p. 365	A9.7:1
Lachnosterna fusca, notes on (Smith). 1888. p. 180	A9.7:1
La Crosse, Wis., rainfall at, heaviest, notes on (Abbe). 1900. p. 448.	A29.6:28
Ladd, Eugene F. Dietary study of club of women students at North Dakota Agricultural College. 1901. p. 21	A 10 3·91
Ladé, von Roeszler. Nettles, experiments with. p. 562	A1.1:878
Ladoga, Lake, from thermic point of view (Schokalsky). 1901. p. 63.	A29.6:29
Ladybird: Asiatic, importation and present status of, preliminary report on	
(Marlatt). 1902. p. 70	A9.6:37
Australian, imported (Coquillett). 1889. p. 70	A9.7:2
Parasite, réport on (Riley). 1888. p. 101	A9.7:1
Lafayette, Ind. See Purdue University.  Lafayette Parish, La., soils and products of (Rapley). 1884. p. 14	A1.8:35
Lafitte, Prosper de. Grape mildew, action of sulphate of copper on.	
1886. p. 100	A6.3:2
Lagerheim, G. See De Lagerheim. Lagoon Head, list of plants collected by Edward Palmer at, in 1889	
(Vasey and Rose). 1890. p. 9.	A6.5:1
Laisser-faire philosophy applied to insect problem (Marlatt). 1899.	10000
p. 5Lake, Edward R.:	A9.6:20
Prune culture in Pacific Northwest. p. 41	A20.1:894
same, reprinted	A20.4:2
Prunes and prune culture in western Europe, with special reference to existing conditions in Pacific Northwest. 1901	<b>A20.3:10</b>
Lake Charles area, La., soil survey of (Heileman and Mesmer.) p. 621.	
Lake commerce and insurance, notes on (Abbe). 1900. p. 556	A29.6:28
Lake County, Ohio, potato culture in (Abbott). p. 295	A1.1:865
Lake Erie College, Painesville, Ohio, dietary study at (Bevier and Sprague). 1901. p. 27	A10.3:91
Lake level, oscillations of, notes on (Abbe). 1900. p. 446	A29.6:28
Lake levels, variations in, and atmospheric precipitation (Henry).	A 00 0.T 15
1899 Lake levels and wind phenomena (Henry), 1900, p. 203	A29.2:L15 A29.6:28
Lake levels and wind phenomena (Henry). 1900. p. 203 Lake water, temperature of, notes on (Abbe). 1898. p. 167	A29.6:26
Lakes:	
Deep, temperature of, notes on (Abbe). 1901. p. 71	A29.6:29 A20.6:26
Ice in, sudden disappearance of, note on (Abbe). 1900. p. 114.	A29.6:28
same (Ten Broeck). 1900. p. 287	A29.6:28
Influence of, on temperature of land, notes on (Abbe). 1900. p. 343	A29.6:28
Oscillation of, in arid regions, notes on (Abbe). 1900. p. 544.	
Small, influence of, on local climate (Abbe). 1901. p. 563	
Lambs: Feeding, in Colorado (Clarke). p. 275	A4 1.001
reeding, in Colorado (Clarke). p. 215	A4.1:901

	Classification no
. Lambs—Continued	
Feeding of, experiments in (Curtiss and Wilson). pp. 463, 466, 469	A4,1:898
Verminous bronchitis in, and its treatment by tracheal injections.	A 1 1.00E
p. 554	A1.1:885
same. p. 554  Lamellicorns, Australian, new genus and two new species of (Sharp).	A4.1:885
	A9.7:2
Lameness of horses; its causes and treatment (Liautard). p. 269 Lamson-Scribner. See Scribner, Frank Lamson.	A4.2:H78
Lancaster, Pa. Soil survey around (Dorsey). p. 61	A26.5:900 <sup>1</sup>
Land: Distribution of, in France. 1888. p. 476	A27.9:26
Drainage and irrigation, list of references to publications relating	
to (Hedrick). 1902.  Drainage in California. 1869. p. 231.  Improved table of in level States 1850-60. No. 6, p. 12	A17.3:41
Drainage in California. 1809. p. 231.	A27.9:7
Imployed, table of in loval blakes, 1000-00. No. 0. D. 12	N41.0.1
Low, cold air in (Abbe). 1896. p. 14.  Monopoly, evils of. 1868. p. 407.	A29.0:24 A97 Q.A
New, clearing (Williams). 1902.	A1.9:150
Public—	
and forests. 1872, p. 65	A27.9:10
in Mexico, prices of. 1889. p. 522	A27.9:27
open for settlement. 1901. p. 688  Reclamation of, in New Jersey, England, and Holland, reports	A1.10:901
of State geologist of New Jersey, 1869 and 1870. p. 221	A1 7·7
Swamp and overflow, reclamation of, in California. p. 179	A1.1:872
Temperature of, influence of lakes on, notes on (Abbe). 1900.	,
p. 343	A29.6:28
Worn-out, improvement of (Page). 1883. p. 207	A1.7:2
See also Alkali lands—Forest lands—Grass lands—Marsh lands—Prairie lands—Salt-marsh lands—Tidal lands—Timber lands.	
Land birds of New England, cology of some, as a means of identi-	
fying injurious or beneficial species (Samuels). p. 386	A1.1:864
Land-grant and bond-aided railroads, alphabetical list of, in U.S. 1902	A13.2:R132
Land-grant colleges. See Agricultural colleges — Agricultural col-	
leges and experiment stations.	
Land tortoise. See Florida land tortoise. Landis, D. S. Leonids at Phoenix, Ariz. 1901. p. 509	A 20 R . 20
Landon, M. D. Cotton-raising by free labor. p.88.	
Landscape gardening, report on. p. 159.	
Landslide in Vermont, note on (Abbe). 1897. p. 307.	A29.6:25
Lane County, Oregon, agriculture in. 1870. p. 84.	A27.9:8
Lang, Thomas S. Roadsters and trotters, breeding of. p. 157	
Langdon nonswarming device, report of (Benton). 1893. p. 230	A9.7:5
Langhorne, G. T. Brussels, importation of American horses into.  1897. p. 26	A1.2:H78
Langley, Samuel Pierpont:	111.2.110
Meteorological work of Smithsonian Institution. 1895. p. 216	A29.3:11 <sup>2</sup>
Smithsonian Institution, Astrophysical Observatory of, annals of.	A 00. 0.20
1902. p. 258 Langlois, A. B. See, as joint author, Ellis, J. B.	A29.6:30
Langedorf, voyage of, 1803-07, notes from (Klotz). 1898. p. 463	A29.6:26
Languria, notes on (Chittenden). 1890. p. 346	A9.7:2
Langworthy, Charles Ford: Alfalfa, when to cut. 1899. p. 24	A 1 9-105
Apricots, cherries, peaches, plums, and prunes, food value of.	A1.0.100
1899. p. 22 Banana flour, how it is prepared. 1900. p. 20	A1.9:105
Banana flour, how it is prepared. 1900. p. 20	A1.9:119
Bread making, skim milk in. 1900. p. 16	A1.9:114
Calves, cost of raising. 1899. p. 21 Cereal breakfast foods, study of. 1899. p. 19	A1.9:107
Coffee substitutes 1000 = 00	A1.9:105
Com moldy fooding to enimals 1900 n 98	A1.7:122
Coffee substitutes. 1900. p. 22. Corn, moldy, feeding to animals. 1900. p. 26. Ducks, feeding, recent experiments in. 1899. p. 20.	A1 9.107
Egg records, individual, nest box for keeping. 1900. p. 19	A1.9:114
60	

Index	Classification no.
Langworthy, Charles Ford—Continued Eggs—	
flavor of, relation of feed to. 1900. p. 25. selling by weight. 1900. p. 24 Eggs and their uses as food	A1.9:122 A1.9:122
Eggs and their uses as food	A1.9:128
Food, functions and uses of. 1901	A10.4:46
Forage crops for pigs. 1901. p. 25	A1.9:124
Hay, spontaneous combustion of. 1899. p. 26.  Hens, laying, number of, that may be profitably kept in one pen.	
1900. p. 18.  Maple sirup and sugar. 1901. p. 21.  Matter and energy, value of experiments on metabolism of. 1898.	
p. 1003 Molasses as a food for farm animals. 1899. p. 17 Nitrogen, metabolized, excretion of, by animals. 1897. p. 817.	A1.9:107
Nuts as food. 1900. p. 18.  Potatoes, value of, as food. 1900. p. 337.	A1.9:122
Purslane, value as a food. 1900. p. 22	A1.9:119
Soy beans as food for man. p. 20	A1.9:58
Steers, grazing on corn and cowpeas. 1901. p. 27	A1.9:124 A1.9:119
See also, as joint author, Atwater, Wilbur Olin—Smith, C. B.; as translator, Stohmann, F.	
Lantern trap, for insects, successful, report on (Gillette). 1897. p.	<b>∆</b> Q <b>6∙</b> Q
La Paz, Lower California, plants collected by Edward Palmer in	A3.0.3
1890 at, list of (Vasey and Rose). 1890. p. 63	A6.5:1
La Perouse, voyage of, notes from (Abbe). 1898. p. 461	A29.6:26
p. 36.  Lapham, J. E., and Miller, M. F. Soil survey of Montgomery	A29.3:18
County, Tennessee. p. 341.  Lapham, Julia A. Lapham, Increase Allen, biographical sketch of.	A26.5:901 <sup>1</sup>
1896. p. 36.  Lapham, Macy H. See, as joint author, Briggs, Lyman James.	A29.3:18
Lapham, Macy H., and Heileman, W. H.:	
Soil survey of Hanford area, California. p. 447	
Laramie Plains, Wyoming, duty of water on. 1899 (Fairfield). 1902. p. 215	A10.3:104
Lard:	1
Composition of, from dairy commissioner of Minnesota (Ives). p. 188	A7.1:889
Pure and fictitious, methods of distinguishing between (Taylor).  1893	A18.5:3
Lard and lard adulterants (Wiley). 1889. p. 405	
Larkspur poisoning of sheep (Wilcox). p. 473	1
Snow in New England, report of, 1817-40. p. 75	
Conn., 1852-94. p. 364  Larrabee, J. H. Apiculture, experiments in 1892. p. 57	A29.6:21 .
Larvæ:  Comparative tests with new and old arsenicals on (Marlatt).	A0.3.30
1896. p. 30 Preservation of, for study (Garman). 1893. p. 98	A9.6:6
Preservation of, for study (Garman). 1893. p. 98	A9.7:6
p. 47	A4.3:35
Lathrop, Barbour, and Fairchild, David Grandison. Foreign seeds and plants collected by, in Austria, Italy, and Egypt. 1900  Latta, William Carroll:	A6.6:6
Address of, before American Association of Farmers' Institute	
Workers, at seventh annual meeting. 1902. p. 13	A10.3:120

Takka William Camall Cambinana	Armanication wo
Latta, William Carroll—Continued	A 10 9.110
Local help in farmers' institutes. 1902. p. 36	A10.3:110
Money value of good roads to farmers. 1896	A22.4:23
Plats in field experimentation, form, size, arrangement, and treat-	110.0.00
ment of. 1896. p. 83.	A10.3:30
Lattimore, S. A. Spices and condiments, adulteration of. p. 296	A1.1:886
Lauder, J. N. Locomotives, smoke-consuming device for. 1887.	
p. 132	A13.3:1
Lavalard, E. Horse feeding, notes on. 1902. p. 4.	A10.6:12
Law, James:	
Animals, contagious diseases of, and means of suppressing and	
extinguishing, 1883, p. 19	A1.8:29
Anthrax among cattle in New York. 1881. p. 312	A1.6:34
Brussels, International Veterinary Congress, report of. p. 321	A4.1:884
same. p. 122.	
Calves, young, diseases of. p. 267	
Cattle—	11111010
generative organs of, diseases of. p. 169	A4,2:C292
parturition of, diseases following. p. 235.	A4.2:C29 <sup>2</sup>
urinary organs of, diseases of. p. 137	A4.2:C29 <sup>2</sup>
Cattle plague or rinderpest, transmission of through medium of	A4.2.020
dev or calted hidea eninion relative to p. 201	A1.1:876
dry or salted hides, opinion relative to. p. 321	
Cattle traffic in relation to cattle plague. 1883. p. 110	A1.7:2
Hog-cholera; intestinal fever in swine. p. 426	A1.1:875
Horse—	A 4 0 TTEO
eye of, diseases of. p. 247	A4.2:H78
generative organs of, diseases of. p. 135	A4.2:H78
skin of, diseases of. p. 419	A4.2:H78
urinary organs of, diseases of. p. 59	A4.2:H78
Influenza in horses. p. 203.	A1.1:872
Pleuro-pneumonia of cattle, letters relative to. pp. 233, 237	A1.6:12
Pleuro-pneumonia or bovine lung plague, article on, in National	
live stock journal. 1880. p. 179	A1.6:22
Swine plague, report on, 1879. p. 420	
same, 1880. p. 455	
Swine plague near Ithaca, N. Y.—	
1879. p. 56	A1.6:12
1879. p. 56 1880. 2d report. p. 68	A1.6:22
1881. p. 81	A1.6:34
Lawes, (Sir) John Bennett, wheat experiments of, 1863-73.	12110101
p. 596.	A27.9:11
Lawes, (Sir) John Bennett, and Gilbert, Joseph Henry. Nitrogen	18201,011
in soils of some of the experimental fields at Rothamsted,	
determinations of, and bearing of results on question of	
sources of nitrogen of our crops. 1882. p. 142	41 8.21
	MI.O.DI
Lawes, John Bennett, and Gilbert, Joseph Henry:	E.
Soil, composition of, some points on, summary and conclusion.	A7.3:10
1886. p. 25	A7.5:10
Wheat grain and wheat straw, grown at Rothamsted, in different	
seasons and by different manures, composition of ash of.	17 9.4
1884. p. 85	A7.3:4
Lawes Agricultural Trust:	
Six lectures delivered under, on investigations at Rothamsted	41000
experimental station, England, 1892 (Warington)	A10.3:8
same, 1893 (Gilbert)	A10.3:22
See also Dyer, Bernard.	4.50
Lawes's views of fertility (Scott). 1883. p. 76.	A1.7:2
Lawn-making. See also Lawns.	
Lawns and lawn-making (Scribner). 1897. p. 355.	A1.10:897
Lawrence, E.:	407010
Cultivation by steam. 1872. p. 358	A27.9:10
Cultivation by steam. 1872. p. 358.  Plowing, steam, profit of. 1870. p. 149  Lawrence, H. E. Steam plowing in Louisiana. p. 278.	A27.9:8
Lawrence, H. E. Steam plowing in Louisiana. p. 278	A1.1:867
Lawrence, La.:	
Sorghum-sugar experiments at. p. 254. same, with additional matter. p. 77.	A1.1:887
same, with additional matter. p. 77	A7.3:17
See also Magnolia Station.	1

	('lassification no.
Lawson, H. H. Chemists, Official Agricultural, Association of, 19th annual convention, 1902, report on. 1902. p. 107.	
Lawson, H. W.:	11010
Cream raising by dilution. 1899. p. 28.  Dairy cow, type of, in relation to milk and butter production.	
1901. p. 28.  Milk, preservation of, by pressure. 1899. p. 27.	A1.9:124
Milk, preservation of, by pressure. 1899. p. 27	A1.9:105
Lazenby, W. R. Horticulture, how shall we teach horticulture?	A1.9:107
1896. p. 60	A10.3:30
Leach, Albert E. Saccharine products, analysis of, provisional method for. 1902. p. 43.	A7.3:65.
Lead, arsenate of:	
Improvement in manufacture of (Kirkland). 1899. p. 102	A9.6:20
Preparation and use of (Kirkland). 1897. p. 46.  Leaf-blight, treatment of (Galloway). 1891. p. 11.	A7.0:9
See also Nursery stock.	A20.0.0
Leaf curl of peach trees, letter of inquiry relative to (Willits). 1893.	A28.4:13
Leaf-cutter. See Morning-glory leaf-cutter.	
Leaf disease. See Nematode leaf disease.	
Leaf fibers of U.S., report on (Dodge). 1893	
Leaf-galls, cranberry, report on (Thomas). 1889. p. 279	A9.7:1
Leaf-mining locust beetle, with notes on related species (Chittenden).	10 B.20
1902. p. 70	A9.6:38
sistus (Bos). 1893. p. 161.	A9.7:6
Leaf structure of Jouvea and of Eragrostes obtusifiora (Ogden). 1897.	
p. 12	A3.3:8
Leaf tobacco, world's exhibit of, at Paris Exposition of 1900-(Floyd).	
p. 157	A1.10:900
p. 157	A9.6:18
Leatner:	A A 1.007 O
American production of (Bailey). p. 419	A4.1:007-0 A4.1:000
Japanese industry in (Lyon). p. 526	A4 1.899
Russian industry (Holloway). p. 528	A4.1:899
Russian industry (Holloway). p. 528.  Leather Trades Chemists, International Association of. 1901. See	
Liège, Belgium.	
Lebanon area, Pennsylvania, soil survey of (Smith and Bennett).	
p. 149	A26.5:901 <sup>1</sup>
Lebbek, or siris tree, circular on (Fairchild). 1900	A6.4:23
Lecanium infesting blackberry, considered identical with L. Fitchii (Cockerell). 1894. p. 29.	A9.7:7
Le Clerc, J. A. Dairy products, analysis of, provisional methods	A0.1.1
for. 1902. p. 35	A7.3:65
Le Cocq, —. Novius cardinalis, introduction of, from America	
into Portugal, account of; translated by Frank Benton. 1898.	
p. 32. Le Conte pear, Colaspis flavida injuring, note on. 1886. p. 40	A9.6:18
	A9.3:12
Le Duc, William Gates:	A 1 9 · A æ81
Agriculture Department, work and needs of	A1.2.Ago
Sorghum sugar, letter to chairman of Senate Committee on Agri-	111.0.10
culture on. 1880	A1.8:16
See also, for reports as Commissioner of Agriculture, 1877-80	A1.1:
Ledyard, F. W. Address of, before convention of National League	
for Good Roads, Washington. 1893. p. 27	A10.3:14
Lee, Fitzhugh. Address of, before Jefferson memorial and inter-	A22.3:25
state good roads convention, Apr., 1902. p. 11	A 22.3:25
Lee, J. G. Louisiana, farmers' institute work accomplished in. 1902.	A10.3:120
Leeches, a disease of the horse in Florida; histological investigation	44 4 W. U. LWV
of two cases of an equine mycosis, with historical account of	
supposed similar disease, called bursattee, occurring in India	
(Fish). p. 229  Leeds, England, cost of hauling farm products over wagon roads at	A4.1:895-6
Leeds, England, cost of hauling farm products over wagon roads at	1.30 1.55
(Haines). p. 2	A22.4:27

	Classification no.
Leeward Islands:	
Rainfall of (Jefferson). 1901. p. 56	A29.6:29
Reforestation and rainfall in (Alexander). 1901. p. 254	A29.6:29
Lefranc, Emile. Ramie and jute, culture and manufacture of, in	
U. S. 1873.  Legal holidays, list of. 1898. p. 677.	A1.8:8
Legal holidays, list of. 1898. p. 677	A1.10:898
Legumes. See Beans — Forage crops — Peas — Plants.	•
Lehmann, G. W. Mineral phosphates, iron and alumina in, estima-	1 <b>5</b> 0 <b>5</b> 1
tion of. 1897. p. 61	A7.3:51
L'Hote, L. Casein, estimation of, by method of Kjeldahl. 1889.	A 77 9 . 0 A
p. 170. Leiberg, John B. Botanical survey of the Cœur d'Alene Mountains	A7.3:24
in Idaha during summer of 1905 - p. 5	A6.5:5
in Idaho during summer of 1895. p. 5.  Leibergia, a new genus of umbelliferæ from Columbia River region	A0.00
(Coulter and Rose). 1896. p. 575	A6.5:3
	A0.0.3
Leisenring, O. D. River gage, brass, description of, at Richmond, Va., and its method of support. 1899. p. 456	A29.6:27
Lelong, B. F. Trees, plants, fruit, etc., inspection of, as conducted	
under laws of California. 1897. p. 12	A1.8:57
Lelong, B. M. See, as collector, Coquillett, Daniel William.	A1.0.01
Lemmings, genera and subgenera of (Miller). 1896	A5.5:12
Lemström, Selim. Sun, cosmical relations manifested in simulta-	A0.0.12
neous disturbances of, aurora, and terrestrial magnetic field.	
1895. p. 492	A29.3:11 <sup>2</sup>
Lenoir, W. W. Cattle disease, strange. 1879. p. 253	A1.6:12
Leonia rileyi, description of, new meloid genus near Hornia (Duges).	221.0.12
1889. p. 211	A9.7:1
Leonids at Havre, Mont. (Ling). 1901. p. 509	
Leonids at Phoenix, Ariz. (Landis). 1901. p. 509	
Leopard moth, ravages of, in Brooklyn, N. Y. (Pike). 1892. p. 317.	A9.7:4
Lepidoptera, noises made by, notes on (Edwards). 1889. p. 11	A9.7:2
See also Moths.	
Lepidopterous insect, beautiful exotic, birth of, in New York	
(Edwards). 1891. p. 316	A9.7:3
Lepidopterous larvæ, description of certain (Dyar). 1890. pp. 61, 389.	
Leplay, Hippolyte. Sorghum cane, culture and distillation of. 1887.	
p. 110	A7.3:18
Leptocoris trivittata injuring apples, note on. 1886. p. 41	A9.3:12
Lesley, J. P. Coal oil, composition and qualities, manufacture, use	
in arts, history of discovery, and theory of origin. p. 429	A1.1:862
Lestophonus genus, note on (Williston). 1889. p. 328	
Lettuce:	
Forcing, in pots. 1898. p. 10	A1.9:69
Head, soil and fertilizers for forcing. 1899. p. 15	A1.9:92
Leukæmia, infectious, in fowls, a bacterial disease frequently mis-	
taken for fowl cholera (Moore). p. 185	A4.1:895-6
Leverett, T. H. Root crops; cultivation of, in U. S. p. 95	A1.1:863
Levi, Leo N. Address of, before good-roads convention of Texas,	
Feb., 1895. p. 8	A22.3:15
Lewis, Lowery Laymon. Veterinarians, value to, of cooperative ex-	
periments. 1898. p. 24	A4.3:22
Liautard, A. Horse, lameness of; its causes and treatment. p. 269.	
Libby, O. G. Tornado at New Richmond, Wis. 1899. p. 299	
Liberal, Kansas, sorghum-sugar experiments at (Wiley). 1889	A7.3:26
Liberia, climate of, notes on (Abbe). 1898. p. 215	A29.6:26
Libraries, Weather Bureau station, notes on (Abbe). 1901. p. 25	A29.6:29
See also Agricultural libraries.	
Libraries and Weather Bureau, notes on (Abbe). 1898. p. 551	A29.6:26
Library, Agriculture Department, work of (Cutter). 1897. p. 220. Library pest, imported, report of (Schwarz). 1895. p. 396	A1.10:897
Ticker in Ticker	A9.7:7
Lichens:	
California and Mexico, collected by Edward Palmer from 1888	40 5.1
to 1892, list of (Eckfeldt). 1893. p. 291.  Patagonia, southern, collected by U. S. S. Albatross in 1887-91,	A6.5:1
Laugonia, southern, collected by U.S.S. Albatross in 1887-91,	AGEA
list of (Eckfeldt). 1892. p. 142.  Removal of, from pear trees, experiments with fungicides (Waite).	A6.5:1
nemoval of, from pear trees, experiments with fungicides ( walte).	A 90 K.7
1891. p. 264	A40.0.7

	Classification no.
Licorice-root cultivation, 1867-71. p. 72  Liebscher, G. Plants, cultivated, principles and methods of breed-	A27.9:10
ing. 1897. p. 347. Liège, Belgium, International Association of Leather Trades Chemists, 1901, report on meeting of (Krug). 1902. p. 147	A10.6:7
Life, loss of, by lightning (Henry):	A7.3:67
1890–1898, p. 45 1899. p. 100	A29.3:26 A29.6:28
1900	
Life zones. See Zones, life and crop.  Light:	
Conditions, influence of, on process of germination (Detmer). 1895. p. 405	A29.3:11 <sup>2</sup>
Precipitation, device for automatically recording beginning and ending of (Fassig). 1902. p. 213	A29.3:31
Reflection by clouds of, from distant fire, note on (Abbe). 1901	A29.6:29
Lightning: Ball—	
instance of, at sea (Seyboth). 1901. p. 249.	A29.6:29
notes on (Abbe). 1898. pp. 358, 565	A29.6:26 A29.6:27
Can we, by automatic records at three selected places, determine	
the energy of a flash of? (McAdie). 1894. p. 18	
Casualties due to (McAdie). p. 510	A29.1:891 *
1900 (Abbe). pp. 292, 56	
1900 (Ashcraft). p. 489	A29.6:28
1900 (Pague). p. 429.  Death by, apparent, directions for procedure in case of. p. 533	A29.6:28 A1.10:894
Destruction by, in State of New York, Aug., 1898 (Allen). p. 357.	A29.6:26
Distant, currents induced by, note on (Abbe). 1898. p. 257	A29.6:26
same (Abbe). 1899. p. 365 Does it ever strike ocean? (Trowbridge). 1902. p. 478	A29.6:27 A29.6:30
Electricity of air and (McAdie). 1899. p. 9	A29.3:26
Fillet or ribbon, notes on (Abbe). 1899. p. 365	A29.6:27
Flashes by pairs (Abbe). 1895. p. 383	A29.6:23 A29.6:25
Kite wire, notes on (Abbe). 1898. pp. 170, 257	A29.6:26
Loss of life and property by (Henry)—	
1890–98. p. 45 1899. pp. 100, 431	A29.3:26 A29.6:28
1900	A29.3:30
Losses by, note on (Abbe). 1899. p. 475.	A29.6:27
Magnetic rocks and, note on (Abbe). 1897. p. 352	A29.6:25 A29.6:26
Notable, note on (Abbe). 1900. p. 290	<b>A29.6:28</b>
Photographing, by daylight (Henry). 1895. p. 379	
Practical utilization of (Abbe). 1897. p. 307	
same, with additional matter	A29.3:15
Recorder, note on (Abbe). 1902. p. 313	
1902. p. 76 Ribbon, notes on (Abbe). 1898. p. 365	A29.3:31
same (Abbe). 1899. p. 255	A29.6:26 A29.6:27
Safety fuse for, on an emometer, notes on (Abbe). 1898. p. 257.	A29.6:26
Serpentine (Kales). 1899. p. 461. Thunder and, in December (Abbe). p. 464.	A29.6:27
Tin roufe as conductors of notes on (Abba) 1808 nn 166 958 i	7 30 B·38
Which trees attract lightning? (Abbe). 1898. p. 257	A29.6:26
Wire fences, notes on (Abbe). 1898. p. 466	A29.6:26
Which trees attract lightning? (Abbe). 1898. p. 257.  Wire fences, notes on (Abbe). 1898. p. 466.  Without thunder, note on (Abbe). 1900. p. 549.  Lightning rods, note on (Abbe). 1900. p. 12.  Liggett, W. M. Agricultural education, practical and scientific. 1900. p. 48.  Lignivorous insect, Anthomyia angustifrous, note on. 1886. p. 38.	A29.6:28
1900. p. 48	A10.3:76
Lignivorous insect, Anthomyia angustifrous, note on. 1886. p. 38.	A9.3:12

Classification no. Limax campestris, food of, further notes on (Webster). 1892. p. 128. A9.7:5 Determination of, in soils (Snyder). 1895. p. 48..... A7.3:47 Effect of, on different crops on acid soils. 1901. p. 6...... A1.9:133 Fertilizer, investigations on. p. 21...... A1.9:65 Fertilizing value of different forms of (Beal). 1901. p. 12..... A1.9:124 Hydrate of, Peronospora overcome by (Cerletti). 1885. p. 71... A6.3:2 Mineral phosphate of. 1867. p. 256..... A27.9:5Mixture of sulphate of copper and, for treatment of grape mildew (Millardet and Gayon). 1885. p. 108 A6.3:2 Relation to plant growth, experimental study (May). 1901. p. 37. A19.3:1 Use of, in purifying the diffusion juices of sugar cane and sorghum (Wiley)..... A7.3:8 See also Hawaiian soils. Lime and plaster, use of. 1863. No. 6. p. 13 A27.9:1Lime-and-sulphur dip: Reply to criticism, p. 548 A4.1:898 Lime wash. See San Jose scale. Liming grass lands (Beal and Smith). 1900. p. 5..... A1.9:122 Liming of soils: From a physiological standpoint (Loew). 1901..... A19.3:1 Report on (Wheeler). 1898.

Lincoln, Geo. F. Poultry raising in Belgium. p. 506.

A1.9:77

A4.1:900

Lindenthal, G. Timber-trestle bridges, economical designing of, review of report of A. L. Johnson. p. 31..... A13.3:12Lindo-Gladding method of determining potash, use of sodium chloride in (Winton). 1891. p. 148 ..... A7.3:31Lindsey, Joseph Bridges: Darmstadt experiment station, report on. 1897. p. 3...... A10.6:7 Feeding value of corn stover. 1896. p. 353.

Wagner method of pot culture. 1897. p. 77. A1.10:896 A10.6:7 Lindsey, Joseph Bridges, and Holland, E. B. Phloroglucin method for estimation of pentosans. 1896. p. 53..... A7.3:49 Linell, Martin L. See, as translator, Meinert, Fr. Linen industry in Silesia. 1873. p. 433 A27.9:11 Ling, Charles W.: Leonids at Havre, Mont. 1901. p. 509..... A29.6:29 Weather types at Havre, Mont. 1898. p. 410..... A29.6:26Linney, Charles E.: Climate and crop conditions, are changes in present forms for reporting weekly, advisable? 1899. p. 126. A29.3:24 A29.3:31 A29.6:21 locally. 1894. p. 230..... Meteorological observations, should not a book for permanent record of, be furnished to section centers and voluntary stations? 1899. p. 121..... A29.3:24 Meteorological records in court. 1902. p. 180..... A29.3:31Meteorology, agricultural, some notes on, with special reference to rainfall element. 1899. p. 85 Storms, approaching, effect of, upon song birds. 1898. p. 354... A29.3:24 A29.6:26

Linseed, linseed cake, etc. 1868. p. 37..... A27.9:6 Lintner, J. A.: Address of, as president, Association of Economic Entomologists, at 4th annual meeting. 1892. p. 67.

Arsenical spraying of fruit trees while in blossom. 1893. p. 181. A9.7:5A9.7:6 Cottonwood beetle, striped. 1895. p. 69 A9.6:2 Elm leaf-beetle in Albany, N. Y. 1895. p. 50 A9.6:2New York, insects of year in, notes on some. 1896. p. 54..... A9.6:6 Liparis (Psilura) monacha, ravages of, in Germany, and means of A9.7:3defense. 1891. p. 379..... Lippincott, James 8.: Atmosphere, humidity of, observations on. p. 520 ............ A1.1:865 395

· · · · · · · · · · · · · · · · · · ·	Classification no.
Lippincott, James S.—Continued	
Fruit regions of northern U.S., and their local climates. p. 137.	A1.1:866
Grape vines, American, climatology of. p. 194	
Market products of west New Jersey. p. 249.	
Plants, geography of. p. 464	
Liquid air:	
Notes on (Abbe). 1897. p. 18	A29.6:25
Source of power, notes on (Abbe). 1899. p. 110.	
Liquid manuring, experiments in (Rand). p. 184.	A1.1:867
Liquids, viscous organic, dehydration of (Carr and Sanborn). 1895.	A7 9.47
p. 134.  Liquor and food adulteration, committee on, of Association of Offi-	A7.3:47
cial Agricultural Chemists, report of:	
1897. p. 117	A7.3:51
1898. p. 78	
1900. p. 100	
1901. p. 75	A7.3:67
Liquors:	<b>A. T. G. 46</b>
Distilled, examination of, provisional methods for. 1896. p. 113.	A7.3:49
Fermented, committee on, of Association of Official Agricultural	•
Chemists, report on—	A7.3:19
1888. p. 38	A7.3:18
1891. p. 14	
1892. p. 171	
1893. p. 143	
	A7.3:43
See, for reports for 1895 and 1896, Liquors, fermented and dis-	
tilled, committee on.	
Fermented and distilled—	A 7 0 05
analysis of, provisional method for (Bigelow). 1902. p. 81	A7.5:05
committee on, of Association of Official Agricultural Chemists, report of. 1895. p. 95	A 7 3-47
same. 1896. p. 116	
See also Alcoholic beverages — Beer — Brandies — Chemical anal-	
ysis, methods of — Distilled spirits — Fermented alcoholic	
beverages — Malt liquors — Wines and references thereunder.	
Lists of publications of Agriculture Department. See Agriculture	
Department, indexes and lists.	A 7 7 000
Little, Frank. Celery culture at Kalamazoo, Mich. p. 343	A1.1:886
Little, H. J. Crops, rotation of, necessity and method of. 1883. p. 85	
Little Colorado River, Desert of Arizona—	A1.0.00
Reptiles and batrachians of (Stejneger). 1890. p. 103	A5.5:3
Biological survey of, results of (Merriam). 1890	A5.5:3
Littlefield, Charles E. Address of, before Jefferson memorial and	
interstate good roads convention, Apr., 1902. p. 55	A22.3:25
Littlehales, George Washington. Magnetic needle, secular change	100 0 111
in direction of; its cause and period. 1894. p. 174	A29.3:11
Live stock: Boston receipts of, 1866–68. p. 22	A27.9:7
British production. 1876. p. 417	A27.9:14
Colorado and Territories of Northwest, condition of industry in	2127.0.1%
(Standart) n 298	A4.1:885
Colorado and Wyoming industry, condition of (McNeely). p.	
425	A4.1:889-90
Condition of—	
1879. Nos. 10 and 13	A27.9:17
1880. No. 23	
1881. No. 32 Foot-and-mouth disease of—	A27.9:19
instructions concerning inspection for. 1902	A4.2:F73
warning to all owners of cattle, sheep, and swine (Salmon)	
1902	A4.4:38
Foreign and interstate shipments of, federal inspection of (Sal-	
mon). p. 237	A4.1:901
Foreign countries, statistics of. 1886. p. 25	A27.9:24

Classification no. Live stock—Continued Freight rates on, from Chicago to New York. 1895. p. 553..... A1.10:895 same. 1896. p. 598..... A1.10:896 Industry in, and weather (Brandenburg). 1900. p. 588...... A29.6:27 Inspectors— Maryland, interests of (Patterson). p. 254..... A4.1:886 A4.1:887-8 (Rusk). 1893..... A1.8:53Mississippi River, industry west of, condition (Wilson). p. 429... A4.1:885 Movement of, in France, 1865-67. p. 380 ..... A27.9:5. Nebraska industry, condition of (Harwi). p. 382..... A4.1:889-90 New York receipts of, 1867–68. p. 21..... A27.9:7Prices, monthly, from markets, Jan., 1873-Dec., 1876..... A27.9:Shipments of, from Canada, Argentina, and Australia to England. Work of breeder in improving (Clay). 1899. p. 627........... A1.10:899 See also Cattle and references thereunder — Chicago, Ill., stock. Live stock and the markets— 1900. p. 569 1899–1901. p. 650 A4.1:901 Live stock and their products, inspection of, rules and regulations Live Stock Association, National, officers of— 1898. p. 610 ..... A1.10:898 1901. p. 637

Live stock sanitary boards, State, list of. 1898. p. 603

A1.10:901

A4.1:898 Liverpool, England: Trade of, with U.S. (Boyle). p. 517. A4.1:899 Wool trade of. 1868. p. 35.
Liverworts from southern Patagonia, collected by U. S. S. Alba-A27.9:6tross in 1887-91, list of (Evans). 1892. p. 140..... A6.5:1Loan associations, Raiffeisen, of Germany. 1891. p. 414..... A27.9:29Loblolly pine (Mohr). 1896. p. 107.

Same, with additional notes by Filibert Roth. 1897. p. 115... A13.3:13<sup>2</sup>
Local, meteorological use of term (Abbe). 1897, p. 208... A29.6:25 Locke, C. A. State and local road improvement societies, appeal for organization of. 1896 A22.4:22 Lockwood, Samuel: Army worm, invasion of 1880, in New Jersey, account of. 1883. p. 139..... A8.1:3

	Classification no
Locomotives, smoke-consuming device for (Lander). 1887. p. 132.1 Locust beetle, leaf-mining, with notes on related species (Chitten-	A13.3:1
den). 1902. p. 70	A9.6:38
American, damage by (Howard). 1894. p. 220.	A9.7:7
California invasion, in 1891, report on (Coquillett). p. 34	
Cape Colony, S. A., in 1879. App., p. 68.	A8.1:3
Certain outbreaks of, in Idaho (Milliken). 1893. p. 17	
China, in 1878. App., p. 65	A8.1:3
same, extermination of (Scatchkow). App. p. 65	A8.1:3
Damage by, destructive, in 1891	A9.3:27
Destructive, found in America, north of Mexico (Bruner)—	A () () () ()
1891. p. 9	A9.3:27
1892	A9.3:28
Destructive, in 1897 (Hunter). p. 40	A1.1:885
Folsom, California (Koebele). 1885. p. 308	A27.9:6
Killing of destructive, with fungous diseases (Bruner). 1902.	A21.5.0
n 50	A9.6:38
p. 50	A9.7:2
Migratory—	220.1.2
· in Minnesota in 1891 (Lugger). p. 18.	A9.3:27
occurrence of, in Japan, 1883. App., p. 59	A8.1:3
New Mexico and Arizona, injurious and other (Townsend).	
1893. p. 29	A9.7:6
North American—	
destructive, with notes on occurrences in 1891 (Bruner). 1891.	
p. 18.	A9.7:4
extracts from early literature on (Berthoud). 1883. App.,	
p. 59 Outlook, report on. 1892. p. 321	A8.1:3
Outlook, report on. 1892. p. 321	A9.7:4
Popular consideration of few of more injurious locusts (or "grass-	
hoppers") of U. S., with best means of destroying them	A O 2.05
(Riley). 1891 Russia. 1883. App. p. 64	A9.3:25
San Joaquin Valley, California (Coquillett). p. 289.	A1 1.885
Spain destruction in 1876 in 263	A 27 9-14
Spain, destruction, in 1876. p. 263	A8.1:3
Texas, during spring of 1886, report upon (Bruner). 1887. p. 9.	A9.3:13
See also Dissorteira longipennis — Grasshopper — Melanoplus spre-	
tus — Pezotettix — Rocky Mountain locusts.	
Lodeman, E. G. Grapes, pruning and training of. 1896. p. 499	A1.10:896
Lodge, William C.:	
Beef cattle, feeding, in Middle States. p. 212	A1.1:867
Fruits and fruit trees of Middle States; propagation, influence of	A 1 7 00F
stocks, diseases and enemies. p. 199	A1.1:800
Wine making and vine culture in Middle States. p. 118	
Loew, Oscar:	A0.1.0
Catalase, new enzyme of general occurrence, with special reference	
	A1.8:68
to tobacco plant. 1901	A1.8:59
Connecticut tobacco, physiological studies of. 1900	A1.8:65
Mineral nutrients, physiological rôle of. 1899	A28.3:18
Soils, liming of, from a physiological standpoint, 1901	A19.3:1
Logan and Richmond Canal, Utah, duty of water under (Swend-	
sen). 1900. p. 211.	A10.3:86
Logan River, irrigation under canals from (Swendsen). 1902.	A10 0-104
p. 179 Loggin, E. W. Wool growing in Uruguay. 1870. p. 436.	A10.3:104
Loggin, E. W. WOO growing in Uruguay. 1870. p. 430	A27.9:8
Logotype outfit, vocabulary of present, should wording of forecasts be confined to? is it advisable to extend vocabulary of logo-	
type outfit? (Chaffee). 1899 n. 48	A29.3:24
type outfit? (Chaffee). 1899. p. 48	A29.3:24
Loncey, H. de. Horses, American, used by large horse companies	
in Paris. 1898. p. 42	A1.2:H78

	Classification no
London, H. A. Address of, before national road conference, July,	
1894. p. 21	A22.3:10
London:	
Butter trade (Ashby). p. 211	A4.1:899
Dead animals in, disposition of (Osborne). p. 346	A4.1:899
Flour in prices of 1969 p 29	A27.9:6
Flour in, prices of. 1868. p. 38.	A27.8:0 A97.0.19
Meat consumption in. 1874. p. 460.	A27.9:13
Meteorological office, notes on (Abbe). 1900. p. 68	
Poultry for London market, preparing (Lowe). p. 333	A4.1:899
Wastes of, method of disposing of (Manning). 1872. p. 379	A27.9:10
London International Exhibition of 1862, account of (Hoyt). p. 27	A1.1:862
Long, D. N. Brick wheel-track road. 1901. p. 68.	A22.3:21
Long Branch, N. J., local contrast of weather at, Jan. 1895 (Abbe).	
p. 13	A29.6:23
Long Island:	1120.0.20
	A 97 O.Q
Menhaden fisheries of. 1870. p. 39	A 00 0.05
Waterspouts off (Abbe). 1897. p. 207	A29.0:20
Long-range weather forecasts, report of (Pague). 1896. p. 166	A29.6:24
Long-tailed shrews. See Shrews.	
Longino, A. H. Road question, importance of. p. 18	A22.3:21
Longleaf pine:	
Report on (Mohr). 1896. p. 29	A13.3:13 <sup>1</sup>
same, with additional notes by Filibert Roth. 1897. p. 29	A13.3:13 <sup>2</sup>
Timber of effect of turnentine gathering on (Fernew)	A13.4:9
Timber of, effect of turpentine gathering on (Fernow)	ALO.T.O
tion in before and often termina for turnontine (Combann)	
tion in, before and after tapping for turpentine (Gomberg).	11000
1893. p. 34	A13.3:8
Longley, A. T.:	
See, for reports as Chief, 1890-92, Document and Folding Room,	
Agriculture Department.	
See, for reports as Chief, Seed Division, Agriculture Department.	
1889	A24.1:
Loomis, L. C. Food, preservation of. p. 470	A1.1:862
Loomis, Silas L. Cattle, neat, distribution and movement of, in	211.1.002
	A1.1:863
U. S. p. 248 Lophophora, North American species of, preliminary revision of	A1.1.000
	1050
(Coulter). 1892. p. 91	A6.5:3
Lord, Wm. P. Oregon, road improvement in, extract from gov-	
ernor's message. p. 7	A22.4:33
Loring, George Bailey:	
Address of, with other proceedings of cotton convention, Atlanta,	
Ga., Nov. 2, 1881	A1.8:17
Cattle industry, address on, at National Convention of Cattle	
Breeders, Chicago, Ill., Nov. 13, 1884	A1 7.8
Dairy farming, address on. 1882. p. 91	
Forestry in U.S., address on, before American Forestry Congress,	A1.0.22
Coint Day! Minn Ann 9 1992	4 1 7.1
Saint Paul, Minn., Aug. 8, 1883	A1.711
Sorghum-sugar industry, address on. 1883	A1.0:04
See also, for reports as Commissioner of Agriculture, 1881-84	A1.1:
Los Angeles County, Cal.:	
Forests of (Kinney). 1888. p. 198	A13.3:2
Horticultural commission, report of. 1890. p. 312	A9.7:2
Los Angeles River, Cal., study of water rights on (Boggs). 1901. p. 327.	
Lotsy, J. P. Nitrogen, free atmospheric, assimilation of, by white	
and black mustard, contribution to investigation of. 1894	A10.3:18
Loughridge, R. H. Soils, physical tests of. 1893. p. 156	
Louisiana:	
Anthrax in, in 1896 (McQueen). p. 176	A 4 1 · 807
Cotton in 1888 - 981	A 97 Q.1
Cotton in, 1866. p. 281. Cotton in, date of receipt of, 1857–70. p. 356.	A41.0.7 A97 0.0
Do Code home of 1000 No Od 10	A 07 () 01
De Noto hogs of 1883 No. 64 h 16	A2/ 9:21
Farm resources and products of. 1868. p. 85	AZ7.9:6
rarmers' institute work accomplished in (Lee). 1902. p. 34	A10.3:120
Farmers' institute work accomplished in (Lee). 1902. p. 34 Hurricane of August 13-16, 1901, on coast of	A29.2:H94
Jute in, 1874. p. 389	A27.9:12
Rice crop, statement on, 1860-69. p. 430.	A27.9:8
Jute in, 1874. p. 389 Rice crop, statement on, 1860-69. p. 430 Southwestern, soils and products of (Rapley). 1884	A1.8:35
	<del></del>

index .	Maraldardian ma
Taminiana Cantinual	Classification no.
Louisiana—Continued  Steen ploughing in (Lawrence) p. 278	A 1 1.967
Steam ploughing in (Lawrence). p. 278 same. 1869. p. 225	A1.1:007 A 97 Q.7
Sugar-cane borer in, life history of (Morgan). 1902. p. 128	A10.3:115
Sugar cane in, diffusion process as applied to (Seig). p. 40	A1.1:884
same. 1884. p. 18	A7.3:2
same. 1884. p. 18. Sugar production, 1874–75. p. 456.	A27.9:13
Truck farming in (Wiggins). 1887. p. 240	A27.9:25
Uplands of, irrigation of rice on (Bond). 1902. p. 11	A10.3:113
See also Calumet plantation sugar experiment station—Des	
Linges sugar experiment station—Iberia parish—La Fay- ette parish—Lake Charles—Kenner—Magnolia Station—	
New Orleans—St. Landry parish—St. Martin parish—St.	
Mary parish — Vermilion parish.	
Louisiana fungi, new species of (Ellis and Langlois). 1891. p. 35	A28.5:6
Louisville, Ky., convention of tobacco growers at, 1865, comments	
on resolutions of. No. 8. p. 16	A27.9:3
Lounsbury, Charles P.:	1000
Good Hope, Cape of, insects of, notes on. 1897. p. 34	A9.6:9
Lounsbury, Charles P., and Mally, C. W. Hydrocyanic-acid gas,	A9.0:20
notes. 1902. p. 75.	A9.6:31
Lounsbury, George E. Connecticut, road improvement in, extract	
from governor's message. p. 2.	A22.4:33
Loveland, George A.:	
Climate and crop sections, Weather Bureau, should monthly re-	
ports of, contain only original matter? 1902. p. 187	A29.3:31
Meteorological observations, should not a book for permanent	
record of, be furnished to section centers and voluntary sta- tions? 1899. p. 120.	A29.3:24
Meteorology in colleges; to what extent is it taught at present;	1120.0.21
should it be offered as an undergraduate or as a postgraduate	
course? 1902. p. 90.	<b>A29.3:31</b>
course? 1902. p. 90. Lowe, S. Poultry, preparing, for London market. p. 333	A4.1:899
Lowe, William Herbert:	1.4.2.0003
Cattle, organs of respiration of, noncontagious diseases of. p. 101.	A4.2:C29*
Tumors of cattle. p. 321.  See also, as joint author, Dickson, William.	A4.2:029
Lower California. See La Paz — Santa Agueda — Santa Rosalia.	
Lower Colorado River, Arizona, free-tailed bat from, description	
of new species (Merriam). 1889. p. 25	A5.5:2
Lowndes, Lloyd. Maryland, road improvement in, extract from	
governor's message. p. 4.  Lucas, Frederick Augustus. Tongues of woodpeckers. 1895. p. 35.	A22.4:33
Lucas, Frederick Augustus. Tongues of woodpeckers. 1895. p. 35.	A5.3:7
Lucassen, M. D. Sugar, diffusion and carbonatation of, in Java, extracts from report on. 1885. p. 49	
Lucern. See Alfalfa.	A7.0.0
Lucilia nobilis parasitic on man (Meinert). 1892. p. 36	A9.7:5
Ludlow, William. Kingsessing and Tinicum meadow district, on	•
Delaware River, drainage of. 1884. p. 240	A1.7:7
Lugger, Otto:	4000
Migratory locusts in Minnesota in 1891. p. 18	A9.3:27
Lumber:	A8.7:2
Consumption of ties and other, by railroads in U.S. p. 41	A13.3:4
New York State, industry, history of (Fox). 1902	A13.3:34
Quality, etc., of. 1895. p. 590	A1.10:895
	A1.10:896
Lumber trade:	
Certain States (Baker). 1884. p. 198	A13.5:4
Letter from agent of Forestry Division requesting information	AZ1.8:1
relative to 1883	A13 9-T 07
relative to. 1883	A13.5:4
Western States and Territories (Furnas). 1884. pp. 246, 255	A13.5:4
Lumbering:	
Conservative, and water supply, discussion of (Newell). 1901. p, 3.	A13.3:30

	Classification no
Lumbering—Continued Southern Appalachians now and under Government ownership and supervision (Price). p. 61	A1.2:Ap4 2
Lumbermen: Practical assistance to, in handling forest lands (Pinchot). 1898.	
Suggestions to, relative to more rational forest management (Fernow)	
Lumpy jaw, or actinomycosis in cattle: Investigations relating to treatment of (Salmon)—	
1891 and 1892. p. 109	A4.1:891-2 A4.3:2
1893 and 1894. p. 88same. n. d	A4.1:893-4
Successful treatment of (Moore). p. 510	A4.1:899
same (Nörgaard). 1893. p. 39	A4.3:2 A29.6:29
Lunar halos (Finney). 1894. p. 76.  Lunar influences in meteorology, notes on (Abbe). 1901. p. 315	A29.6:22
Lunar rainbow, notes on (Abbe). 1898. pp. 67, 364	A29.6:26
Lupton, N. T. Address of, as president of Association of Official Agricultural Chemists, at 9th annual meeting, 1892. p. 2	A7 9.95
Lurman, Gustav W. Address of, before convention of National	
League for Good Roads, Washington. 1893. p. 18	
Foot-and-mouth disease. 1881. p. 33.  Letter to Dr. Thomas Taylor on work of his microtome. 1881	A18.2:M58
Pleuro-pneumonia, contagious, in cattle—  1st report, 1879. p. 456	A1.1:879
[Also issued as 46th Cong., 2d sess., S. mis. doc. 74; serial no. 1891.] same, p. 163	A1.6:22
2d report. 1880. p. 196	A1.6:34
3d report. 1880. p. 571same	
same. p. 268. 4th report. p. 30.	A1.6:34
[5th] final report. 1881. p. 352	A1.1:881-2
ment of, with salts of copper at Charlottesville, Va., in 1887.	A6.3:5
p. 5 Same. 1888. p. 20 Lyman, Joseph B. Cotton planting, directions for. p. 193	A6.3:10
Lymph-adenitis. See Ovine caseous lymph-adenitis. Lyon, Frank W. Convict labor, use of, in road building. 1901.	
p. 90. Lyon, J. L. Grass and forage plants, cooperative experiments with.	A22.3:21
1902. p. 71 Lyon, Samuel S. Leather industry in Japan. p. 526	A10.3:115 A4.1:899
Lyon, T. T. Russian and other fruits, adaptation of, to extreme northern portions of U.S. 1888	A20.3:2
Lyons, Curtis J.:  Dew-point, tables of, observed at Honolulu. 1899. p. 587	
Hawaiian climatological data, monthly, May, 1901-Oct., 1902  Meteorological observations, monthly, at Honolulu, Hawaiian	
Islands, March, 1894—April, 1901	A29.6:
Volcanic eruptions in Hawaii. 1899. p. 298	A29.6:27
Lyons, Patrick F.:  Meteorological records in court. 1902. p. 183	A29.3:31
Weather forecasts, should temperature be verified by maximum	
and minimum readings. 1902. p. 167.  Lyons, France, 3d international meteorological congress at, general	
report on hail shooting presented at (Plumandon). 1902. p. 35.	A29.6:30

## Index .

Index .	011041
Tarrian stand 377 at Januar Innimates to also (Trime) 1001 - 100	Classification no.
Lysimeter. What does a lysimeter teach? (King). 1891. p. 106	A10.5:3
Lysiphlebus, braconid genus, variations in (Coquillett). 1891. p. 313. Macadam, Robert K. North American agarics, report on. 1889.	
pp. 58, 135	A 28 5:5
Macadamized roads. See Roads.	1120.0.0
McAdie, Alexander G.:	
Aero-physical observatory, equipment of. 1896. p. 453	A29.6:24
Alto-stratus, whirling, report on. 1897. p. 245  Atmospheric electricity, some experiments in. 1891. p. 171	A29.6:25
Atmospheric electricity, some experiments in. 1891. p. 171	A29.6:19
California, rainfall charts of. 1902. p. 362	1 00 4 004 1
Casualties due to lightning. p. 510  Climate as controlling factor in long-distance transmission of elec-	A29.1:891
trical energy. 1897. p. 439.	A29.6:25
Climatological data, interchange of standard. 1899. p. 135	A 29.3:24
Cloud observations, utilization of, in local and general weather	
predictions, 1894. p. 21	A29.3:11 <sup>1</sup>
Fog studies on Mount Tamalpais, etc.—	
1900. pp. 283, 492	A29.6:28
1901. pp. 24, 61, 104	
1901. p. 31	A29.3:31
Frost fighting— 1899. p. 111	A 90, 2.94
1900	
1901. p. 65	
Kite, problem of, report on. 1897. p. 246.	
Lightning—	
can we, by automatic records at three selected places, deter-	
mine the energy of a flash of? 1894. p. 18	A29.3:11 <sup>1</sup>
protection from. 1894	A29.2:L62
same, with additional matter. 1895	
Lightning and electricity of air. 1899. p. 9.	A29.3:26
Meteorological observations, simultaneous, in U.S. during 18th century. 1895. p. 303.	A29.3:11 <sup>2</sup>
San Francisco weather forecast district, report of, monthly, Apr	A20.0.11
July; Sept., 1899–July, 1900; Nov., 1900–July, 1901; Sept.–	
Nov., 1901; JanOct., 1902	<b>A29.6</b> :
Storm warnings and displays by flag and lantern, are present	
best that can be devised for Atlantic and Gulf coasts? 1899.	
p. 29.	A29.3:24
McAdie, Alexander G., and Willson, George H. San Francisco, Cal.,	A 00. 0.00
climate of. 1899	A29.3:28 A19.3:20
Macaroni wheats (Carleton). 1901	A19.3:3
McBride, F. W. See, as joint author, Huston, Henry Augustus.	1110.0.0
McBryde, J. Bolton, and Beal, Walter Henry. Cotton, chemistry of.	
	A10.3:33
1896. p. 81 McBryde, J. M. Fertilizers for cotton. 1894	A1.9:14
McCallie, S. W. Roads and road-building materials of Georgia. 1902.	1.00.0.00
p. 50.  Mi Comm. D. T. Shoon bushanday in Naharaha. m. 102	A22.3:23
M'Cann, D. J. Sheep-husbandry in Nebraska. p. 193	A1.1:864
p. 19.	A1.8:57
McCarty, J. H. Meteorology, recent publications on. 1896. pp. 76,	
112, 153, 198	A29.6:24
McChesney, J. 11.:	
Agricultural colleges and model farms, letter on. 1868. p. 460	A27.9:6
Agricultural colleges and model farms, letter on. 1868. p. 460 Agricultural education in Europe. p. 127	A1.1:868
McChesney, J. W. Esparto grass, information on. 1869. p. 233	A27.9:7
McClatchie, Alfred James: Eucalynts cultivated in U.S. 1902	A12 2.25
Eucalypts cultivated in U.S. 1902	A10.3:104
same. 1901. p. 87	A10.3:119
same. 1901. p. 87	A10.3:76
McCormack, H. See, as joint author, Grindley, H. S.	
McDonnell, Henry Barnett. See, as joint author, Frear, William.	
McElroy, Karl P.:	4 7 0 00
Sorghum-sugar experiments at Ness City, Kans. 1889. p. 81	A7.3:26

·	Index Classification no.
McElroy, Karl P.—Continued Vegetables, canned, report on, with collaboration of W. D. Bigelow. 1893. p. 1015	A7.3:13 <sup>8</sup>
See also, as collaborator, Wiley, Harvey Washington. McFarland, Byron. Thunderstorm; new explanation of one of its phenomena. 1901. p. 297.	A29.6:29
McGann, Edward W. Meteorological statistics, how to improve them to meet the needs of medical profession, etc. 1899. p.	
McGehee, John M.: Swine diseases, special report no. 12, review of. 1879, p. 89	A29.3:24 A1.6:22
Swine plague in Florida. 1880. p. 94	A1.6:22
Fowls, American breeds of. p. 513	A4.3:29 A4.3:31
Remarks of, at 2d convention of Weather Bureau officials, Milwaukee, Wis. 1901. p. 230.	A29.3:31
Rural free mail delivery in relation to road improvement. 1901. p. 92  Machinery designed for destruction of cotton worm, experimental	A22.3:21
tests of (Barnard). 1883. p. 39	A9.3:3
McKeown, S. W. Milk or cream, butter fat in, method of determining by difference. 1894. p. 194  McKerrow, George. Wisconsin, farmers' institute work accom-	A7.3:43
plished in. 1902. p. 31  Mackie, Simon F. Great Salt Lake, level of, relation between, and	A10.3:120
rainfall. 1901. p. 57.  McKinley, William, resolutions on death of, at International Good Roads Congress held at Buffalo, N. Y., Sept. 16–21, 1901.	A29.6:29
p. 16.  McKinney, H. G. Water supply, notes on experience of other countries in administration of their. 1891. p. 261	A22.3:21 A15.2:P94 <sup>1</sup>
McLain, Nelson W.: Apiculture, experiments in—	
1885. p. 333 1886. p. 583 1887. p. 170	
1887. p. 66	A9.3:13
p. 52 McLaren, Dice. Grass stations, cooperative, in West and Southwest. p. 344	A11.5:3 A1.1:891
Same, p. 344 McLean, L.: Anthrax among cattle in the Northwest. 1881. p. 311	A6.1:891
Anthrax in New Mexico, outbreak of. 1881. p. 317	A1.6:34
McLean, L.; Miller, Wm. B. E.; Michener, Ch. B.; Horr, Thomas J.; Hauk, James W.; Roland, H. Whitfield. Animals in New York and Brooklyn, contagious diseases of, preliminary re-	
port of inspectors in investigation of. 1884. p. 19	A1.1:887
pachybasium, note on. 1891. p. 75	A28.5:6
Chemical memoranda, monthly, Jan., 1873, to Dec., 1876	A27.9:
statistics of  Raw silks, examination of. 1883. p. 56  Sugar beet, culture of, preliminary report on, near Portland,	A1.6:36 A9.3:3
Maine. 1879. p. 171same, final report on, in New England. 1879. p. 181	A1.6:28 A1.6:28

Index .	Massification no
McMurtrie, William—Continued	Classification no.
Sugar beet, culture of, and manufacture of sugar therefrom in	
France and United States. 1880.	A1.6:28
Sumac, culture of, in Sicily, 1880	A1.6:26 A1.8:22
Wools and other animal fibers, examination of. 1886	A1.2:W88
See also, for reports as Chemist, Chemistry Bureau, Agriculture	
Department, 1873–1877  McNamee, James. Address of, before convention of National League	A7.1:
for Good Roads, Washington. 1893. p. 76	A10.3:14
McNeely, J. F. M. Live-stock industry, condition of, of Colorado	1 1 1 000 00
and Wyoming. p. 425	A4.1:889-90
Nevada, and sheep industry of Colorado in 1897. p. 377	A4.1:898
McNutt, J. N. Swine-plague in Jefferson Co., Mo. 1879. p. 173	A1.6:12
McPherson, William. See, as joint author, Weber, Henry Adam. McQueen, Asa N. Anthrax in Louisiana in 1896. p. 176	A4.1:897
Macrae, A. S. Potato-flour or farina. p. 390.	A1.1:875
McWhirter, Professor. Agricultural and industrial education, paper	A 1 7.0
relative to. 1885. p. 105	A1.7:9
Meteorology in, note on (Abbe). 1901. p. 375	A29.6:29
Spider in, poisonous. 1890. p. 273	A9.7:2
Madder: Dyer's culture of (Newton). 1866. p. 94	A27.9:4
Properties and uses, etc. (Dodge). p. 339	A1.1:865
Smyrna, culture of (Smith). 1870. p. 284.	A27.9:8
Maddock, Miss Blanche. Women's farm institutes. 1902. p. 46. Madeira:	A10.3:110
Egg exports from (Jones), p. 520	A4.1:900
Kite work in, notes on (Abbe). 1898. p. 552.  Madison County, Ohio, cattle sales. p. 371.	
Madras, India, rainfall in, and frequency of sun spots (Subha Rao).	A1.1:009
1902. p. 438	A29.6:30
Maercker, M. German agricultural experiment stations, aims and tendencies of. 1898. pp. 103, 207	A10.6:9
Magnesia, relation to plant growth, experimental study of (May).	A10.0.8
1901. p. 37	A19.3:1
Magnetic declination, discovery of, made by Christopher Columbus (Bertelli). 1895. p. 486.	A29.3:11 *
Magnetic field. See Terrestrial magnetic field.	
Magnetic instruments, some improvements in. 1895. p. 539	A29.3:11 <sup>2</sup>
See also Earth-magnetic instruments.  Magnetic needle, secular change in direction of, its cause and period	
(Littlehales). 1894. p. 174	A29.3:11 <sup>1</sup>
Magnetic observations:	
Coordinate axes for magnetic and meteorological observations, standard system of (Bigelow). 1897. p. 201	
New method for discussion of (Harrington). 1892	A29.3:2
See also Meteorological observations.  Magnetic rocks and lightning note on (Abba) 1807 p. 252	190 8.95
Magnetic rocks and lightning, note on (Abbe). 1897. p. 352 Magnetic survey:	1
Europe and Asia (Tillo). 1895. p. 465.	A29.3:11 <sup>2</sup>
North America (Schott). 1895. p. 460	A29.3:11*
Terrestrial magnetism.	
Magnolia Station, Lawrence, La:	
Manufacture of sugar at, experiments in (Spencer)—	A1.1:886
1886. p. 328	A7.3:11
1886-7	A7.3:15
1888. p. 29	A7.3:18 A7.3:21
Sugar and sugar cane data for 4 years at, summary of (Spencer).	
1887. p. 46	A7.3:18
See also Lawrence, La.  Magruder, Wm. T. Agricultural engineer. 1900. p. 103	A10.3:76
•	<del>-</del>

	VA
<b>Classification</b>	no.

	Classification no.
Mahany, Michael, short biography of (Abbe). 1898. p. 550	A29.6:26
Agriculture of, some outlines of (Boardman). p. 39	A 1 1.989
Beet-sugar in (Blackwell). 1883. No. 61. p. 26	A27.9:21
Climate, soil, physical resources, and agricultural capabilities of,	A21.0.21
with special reference to occupation of its new lands (Board-	
man). 1884	A1.7:4
Corn canning in (Boardman). 1886. p. 554	A27.9:24
Farm resources and products of. 1868. p. 4	A27.9:6
Farm resources and products of. 1868. p. 4	A22.4:28
Starch factories in, report on (Boardman). 1885. No. 19. p. 23.	A27.9:23
Starch manufacture in. 1886. p. 22	A27.9:24
See also Aroostook County — Portland — Sebago Lake.	
Maine State College. Dietary studies at, in 1895 (Jordan)	A10.3:37
Maize or Indian corn:	110001
Carbohydrates of (Stone). 1896	A10.3:34
Composition of, including grain, meal, stalks, pith, fodder, and	47 0.50
cobs (Wiley). 1898	A7.3:50
Culture of (Wolfren) - 215	A1.4:0 A11.988
Culture of (Wolfinger). p. 215.  Food value of (Wiley). p. 17.	A1.1.600
In manufacture of beer (Wahl)	A1 8.52
Industry in U. S. (Snow). p. 23	A1.8:49
Introduction of, into Europe (Murphy). 1891. p. 5.	A1.8:49
Sorghum and, as sugar plants, report on. p. 228	A1.1:877
Use of, in Europe, and possibilities of its extension. 1892	A1.8:49
Use of, in Mexico. 1893. p. 256	A27.9:31
Xenia, or immediate effect of pollen, in (Webber). 1900	A28.3:32
See also Corn.	
Maize and sorghum sugars, manufacture of, circular relative to (Le	
Duc). 1879	A1.8:15
Maize-paper and maize-cloth (Dodge). p. 436	A1.1:863
Mal de caderas, note on. p. 154	A4.1:901
Mal di goma. See King, William Rice.  Maladie du coit:	
Extirpation of, in Nebraska and South Dakota (Faville). p. 62	A4.1:893-4
Second outbreak of, in Nebraska (Faville and Day). p. 134	
Supposed, among horses in Nebraska (Faville). p. 359	A4.1:891-2
Malaga, Spain, muscatel raisins in, production of (Mark). 1875.	
p. 319	A27.9:13
Malanesia. See Australasia.	
Malay Archipelago, climate of (Van der Stok). 1896. p. 669	A29.3:11 8
See also Australasia.	
Malignant edema. See Blood poisoning.	
Mallein, distribution of. 1899. p. 532.	A4.1:899
Mallet, John William:	
Creatin and creatinin, physiological effect of, and their value as	110 9.66
nutrients. 1899	A10.3:66
Nitrogen of proteids, and that of simpler amids or amido-acids, investigation of analytical methods for distinguishing between.	
1898	A7.3:54
Mallophaga or bird-lice, affecting man and lower animals (Osborn).	111.0.01
1891	A9.3:7
Mallophaga:	
Development in, note on period of (Osborn). 1890. p. 115	A9.7:3
Parasitic habit in, origin and development of (Osborn). 1891.	
p. 187	A9.7:4
Mally, C. W., fruit seriously injured by moths. 1902. p. 90.	A9.6:31
See also, as joint author, Louisbury, Charles P. — Webster, Fran-	
cis M. Maller Englasish W.	
Mally, Frederick W.:	
Boll worm of cotton, report of progress in supplementary investi-	
gation of this insect— 1891	A9.3:24
1892. p. 45	A9.3:26
. 1893	
	e de la companya del companya de la companya de la companya del companya de la co

Index	Classification no.
Mally, Frederick W.—Continued	
Mexican cotton-boll weevil. 1901	A1.9:130
Monostegia ignota, report on. 1890. p. 9	A9.7:3
Malt liquors:	A. 1.2
Adulteration of (Crampton). 1887. p. 263  American, composition of, and the substances used in their adulter-	A7.3:13*
American, composition of, and the substances used in their adulter-	411000
ation (Crampton). p. 183.  Consumption of, in U. S., per capita of population—	A1.1:887
1870–1895. p. 552	A1.10:895
1870–1895. p. 552 1896. p. 595 1898. p. 723	A1.10:896
1898. p. 723	A1.10:898
See also Liquors. Malta:	
Animals and animal products in (Grout). p. 520.	A4.1:898
Weather and storms of, during October, 1898 (Grout). p. 546	A29.6:26
Mammalogy and ornithology of New England, with reference to agricultural economy (Samuels). p. 265	A1 1-883
Mammalogy Division. See Ornithology and Mammalogy Division,	212.1.000
Agriculture Department	A5.1:
Mammals:  Bounties on, circular in relation to. n.d	A 5 4.10
Economic relations of, circular on. 1886.	
Food habits and distribution of, in parts of Minnesota and Dakota	
(Bailey). p. 426	A1.1:887
same, p. 426 North American—	A0.1:887
descriptions of fourteen new species and one new genus of	
(Merriam). 1889.	A5.5:2
descriptions of new genus and two new species (Merriam).	A 5 5 5
p. 115	A5.5:4
Small, directions for measurement of (Merriam). 1889	A5.4:11
See also Tres Marias Islands, Mexico — Yukon region.  Mammitis. See Cows.	
Man:	
Conflict of, with climate, notes on (Abbe). 1899. p. 257	A29.6:27
Food and nutrition of, list of publications on	A10.2:F78
Lucilia nobilis parasitic on (Meinert). 1892. p. 36	A9.7:5
Pediculi and mallophaga affecting lower animals and (Osborn).	
1891	A9.3:7
See also Climate and man.  Man-infesting bot, abstract of paper on (Matas). 1888. p. 76	A9.7:1
Manchester, England:	
Butter market (Ashby). p. 201	A4.1:899
Market for American products	A12.4:8
League for Good Roads, Washington. 1893. p. 11	A10.3:14
Manila, Philippine Islands:	
Note on weather of (Phillips). 1898	A29.3:22
Weather of, report on (Phillips). 1899. p. 321	A29.1:898
Manila hemp plantain, note on. 1872. p. 365	A27.9:10
Manitoba:	A27.9:28
Crops and live stock in. 1894. p. 421	A27.9:32
Mannheim, Germany, cost of hauling farm products over wagon	•
roads at (Goldfinger). p. 9	A22.4:27
ing of. 1872. p. 379	A27.9:10
Manson, Marsden. Yuba River, California, features and water	
rights of. 1901. p. 115	A10.3:100
Manual training, practical importance of (Gilkison). 1900. p. 96	A10.3:76
Manual training and apprentice system (Richards). 1894. p. 73	A10.3:20
Manufacturing conditions and resources of U.S. (Newton). 1862	A1.8:1

	Index
<b>3</b>	Classification no.
Manures: Chemical, note on. 1869. p. 300	A 27 9 · 7
Fertilizing value of manure from cows. 1899. p. 5	A1.9:97
Great Britain. 1868. p. 38	A27.9:6
Great Britain. 1868. p. 38 Green manuring and (Wolfinger). p. 299	A1.1:864
Greensand marl as. 1867. p. 368	A27.9:5
same, p. 30	A27.9:6
Potash as. 1870. p. 287.	A1.1:870 A27.9:8
See also Barnyard manure—Chemical manures—Farm manure—	A21.0.0
Fertilizers — Moule's earth-closet system — Stable manure.	
Manures, and how to apply them. 1868. p. 93	A27.9:6
Manures and their application (Brown and Reynolds). p. 368	A1.1:865
Manuring: Cotton (White) 1896 n 189	A 10 Q · QQ
Cotton (White). 1896. p. 169. same (White). 1897	A1.9:48
Experiments in. 1867. p. 55.	A27.9:5
Green, leguminous plants for (Allen). 1894	A1.9:16
See also Liquid manuring — Soils.	
Maple sugar:	A 1 1.000
Manufacture of (Alvord). p. 394.  Production of, in United States and Canada (Hough). 1884. p. 394.	A1.1:802 A12 5.4
Table showing amount of, June, 1864. No. 3. p. 8	
See also Sugar industry of United States.	
Maple:	
North American (Vasey). 1875. p. 313	A27.9:13
Pulvinarias on, two most abundant (Howard). 1900. p. 7	A9.6:22
Maple pseudococcus, report on (Howard). 1894. p. 235	
Maps, chalk-plate, note on (Abbe). 1899. p. 311.	A29.6:27
See also Weather maps.	
Marbles of Rutland County, Vermont (Dorr). p. 448	A1.1:862
Marbury, John B.:	
Climate and crop service weekly bulletins, should remarks of cor- respondents be published? should weekly reports of tempera-	
ture and rainfall be telegraphed from voluntary stations?	
1899. p. 108	A29.3:24
Weather-forecast stations, voluntary, river and cotton-belt, estab-	
lishment and inspection of. 1899. p. 150.	A29.3:24
Weather forecasts, verification of. 1902. p. 156.	A29.3:31
March, weather conditions for, statement of average (Garriott). p. 117.  Mardela Springs, Md., frosts in May at (Abbe). p. 172	A29.6:29 A29.6:23
Marean, Herbert W., soil survey of Covington area, Georgia. p. 329.	A26.5:901 <sup>1</sup>
See also, as joint author, Burke, R. T. Avon.	
Marean, Ralph B. Mist, small whirling columns of. 1899. p. 409.	A29.6:27
Mares:	A 4 0 - 0
Abortion in, outbreak of (Kilborne). 1893. p. 49	A4.3:3 A4.1:889-90
Vagina of, pathogenic bacillus from, after abortion (Smith). 1893.	M4.1.000-00
p. 53	A4.3:3
Marine Meteorology, Division of, in Hydrographic Office, Navy De-	
partment, origin and work of (Beehler). 1895. p. 221	A29.3:11 <sup>2</sup>
Marine nephoscope and its usefulness to navigator (Abbe). 1894.	A 90. 9.11 I
p. 161 See also Nephoscope.	A29.3:11 <sup>1</sup>
Marine plants, uses of, with a brief account of curing of Irish moss	
(Bates). p. 423	A1.1:866
Maring, Delos T.:	
Sunshine recorder, improved, report on. 1897. p. 485	A29.6:25
Weather Bureau exhibit at Pan-American Exposition, Buffalo, N. Y. 1901. p. 259.	A29.6:29
Maritime species of Coccidæ (Cockerell). 1894. p. 42	A9.7:7
Mark, John A. Muscatel raisins, production of, in Malaga. 1875.	
p. 319	A27.9:13
Market, stock hogs for. p. 101	A4.1:893-4
Market-garden crops, nitrogenous fertilizers for (Smith). 1901. p. 12. Market gardening in vicinity of New York (Henderson). p. 243	A1.9:124 A1 1.985
~ we ace Said out M. Alcinio, of 110M Toly (Tightalon). b. 549	44.1.000

· · · · · · · · · · · · · · · · · · ·	Classification no.
Market milk, plan for its improvement (Pearson). p. 158	A4.1:900
Market products of west New Jersey (Lippincott). p. 249	A1.1:865
Market quotations and farm prices. 1893. p. 485	
same. 1894. p. 732.  Market systems of the country, their uses and abuses. p. 241	A27.9:32 A1.1:870
Marketing farm produce (Hill). 1897	A1.9:62
Markets, world's, for American products	A12.3:
See also Foreign markets.	A 1 1.000
Marl region of Virginia. p. 389	A1.1:808
Arsenicals, new and old, comparative tests with, on foliage and	
with larvæ. 1896. p. 30.	A9.6:6
Asiatic ladybird, importation and present status of, preliminary	AO 6.27
report on. 1902. p. 70	A9.6:20
Bedbug and cone-nose, report on. 1896. p. 32.	
Bedbugs, circular on. 1902.	A9.5:47
Buffalo gnats, report of trip to investigate. 1889. p. 7	A9.7:2
circular on. 1897	A9.5:23
report of. 1894. p. 8	
Cicada, periodical—	
account of Cicada septendecim, its natural enemies and means of preventing its injury, with summary of distribution of	
different broods. 1898	A9.6:14
different broods. 1898 broods of, new nomenclature for. 1902	A9.5:45
consideration of validity of old records bearing on distribution	
of broods of, with particular reference to occurrence of broods VI and XXIII in 1898. 1898. p. 59	AQ R-19
new nomenclature for broods of. 1898. p. 52	A9.6:18
Clover mite, circular on. 1897.	A9.5:19
Coccinellidæ, scale-feeding, predatory insects which affect useful-	A O. G. 27
ness of. 1902. p. 84. Cockroaches, report on. 1902.	A9.5:51
Cockroaches and house ants, report on. 1896. p. 84.	<b>A9.6:4</b> .
Codling moth, double-brooded, report on. 1894. p. 248	A9.7:7
Currant stem-girdler, report on. 1894. p. 296. same. 1895. p. 387	A9.7:6
Elm leaf-beetle—	20.1.1
imported, circular on. 1895 in Washington, D. C. 1895. p. 47	A9.5:8
in Washington, D. C. 1895. p. 47	A9.6:2
Grape, principal insect enemies of— 1895. p. 385.	A1.10:895
1898	A1.9:70
1900. p. 27 (excerpt)	A1.9:118
Hessian fly, circular on Hibernation of chinch bug. 1894. p. 232	
House ants, circular on, 1898	A9.5:34
House centipede, circular on. 1902	A9.5:48
Insect control in California. 1896. p. 217.	A1.10:896
Insecticide experiments, some. p. 33	A9.6:80 A9.6:6
Insecticides, important directions for their preparation and use	
same, revised. 1901	A1.9:127
Insecticides, notes on—	AQ 7.7
1894. p. 115 1895. p. 19	A9.6:2
1897. p. 54	A9.6:9
1898. p. 94  Ingosta injurious methods of controlling with formulas for incon	A9.6:17
Insects, injurious, methods of controlling, with formulas for insecticides. 1894. p. 572	A1.10:894
same. 1895. p. 580	A1.10:895
Laisser-faire philosophy applied to insect problem. 1899. p. 5	A9.6:20
Locust, lesser migratory, report on. 1889. p. 66	A9.7:2
nopters of family Tenthredinide. 1896	A9.8:3
noptera of family Tenthredinidæ. 1896	A9.5:25

	CIMBBINCECTOR MO
Marlatt, Charles Lester—Continued	
Paris green, notes on. 1895. p. 408	A9.7:7
Peach-tree borer, circular on. 1896	A9.5:17
Peach twig-borer—	
an important enemy of stone fruits. 1898	A1.9:80
report on. 1898. p. 7	A9.6:10
report on. 1898. p. 7	A9.5:26
Pear-tree psylla, circular relative to. 1895	A9.5:7
Pear-tree psylla in Maryland. 1894. p. 175.	A9.7.7
San Jose scale—	110.7.7
experiments with winter washes against, season of 1894–95.	
1895. p. 365	A9.7:7
how to control	
in Japan, preliminary report on. 1962. p. 41.	
native home of, résumé of search for, in Japan and China.	
1902. p. 65	A9.6:37
Scale insect and mite enemies of citrus trees. 1900. p. 247	A1.10:960
Scale insects, temperature control of. 1899. p. 73	A9.6:20
Silver fish, circular on. 1902	A9.5:49
Sweet potato saw-fly, new. 1892. p. 24	A9.7:5
True clothes moths, circular on. 1898	
Wheat, growing, principal insect enemies of. 1901	
White ant, circular on. 1902	A9.5:50
White ant, species injurious to wall paper, books, timbers, etc.	
1896. p. 70	1 4
Woolly aphis of apple. 1897	A9.5:20
Xanthium trypeta, report on. 1891. p. 312	A9.7:3
See, for report as acting Chief, Entomology Division. 1902	A9.1:
See also, as joint author, Howard, Leland Ossian — Riley, Charles	
Valentine.	
Marls:	
Chemical examination of (Brown). 1872. p. 307	A27 9·10
Chemical memoranda on (Brown). 1872. p. 371	A 27 9·10
Greensand, as manure. 1867. p. 368.	A 27 Q 5
same. p. 30.	A27.9:6
Marmot, new, from Black Hills of Dakota, description of (Merriam).	A21.0.0
1889. p. 7	A5.5:2
Mars:	A0.0.2
	1.90 0.99
Notes on earth and (Abbe). 1900. p. 543	A 20. 0.20
People of (Talman). 1900. p. 537	A29.6:28
Marsh, George Perkins. Irrigation, evils, remedies, and compensa-	
ions of. p. 362. [Also issued as 43d Cong., 1st session, 8. mis. doc. 35, serial no. 1584.]	A1.1:8/4
Marsh hawk, report on (Fisher). p. 370	A 1 1.950
Same, p. 370.	A5.1.000
Marsh hay, salt and fresh water (Allen). p. 296	A1 1.076
Marsh lands reclamation of (Calling) = 800	A1.1.070
Marsh lands, reclamation of (Collins). p. 600	A1.1.010
	119 9.192
Marsh or pond pine, observations on (Roth). 1897. p. 169	A13.3:13
Marsh soils. See Soils.	1.1.000
• Marshall County, Kansas, cattle disease in (Steddom). p. 382	A4.1:090
Marten, John:	1070
Hessian fly, life history of, new notes on. 1891. p. 265	A9.7:3
Rocky Mountain locust in 1880, report on. 1883. App. p. 50	A8.1:3
Marten, new (Mustela caurina), from northwest coast region of U.S.	
description of (Merriam). 1890. p. 27	∤ <b>A5.5:4</b>
Martin, F. O. See, as joint author, Mooney, Charles N.	
Martin, George A. Chicago horse show of 1890. 1891. p. 349 Martin, J. O., soil survey of Willis area, Texas. p. 607	A4.1:889-90
Martin, J. O., soil survey of Willis area, Texas. p. 607	A26.5:901 <sup>1</sup>
See also, as joint author, Smith, William G.	
Martinique, West Indies:	
Customs tariff in. 1893. p. 209 Cyclone of Aug. 18, 1891. p. 185	A27.9:31
Cyclone of Aug. 18, 1891. p. 185	A29.6:19
Eruption at, meteorological conditions following (Kimball).	}
1902. p. 267	A29.6:30
Eruption at, meteorological conditions following (Kimball). 1902. p. 267 Weather service, establishment of (Kimball). 1901. p. 512	A29.6:29
See also Pelee, Mount.	I
•	•

	Classification no.
Marvin, Charles Frederick:	
Address as chairman, section of instruments and exposure, before	ı
second convention of Weather Bureau officials, held at Mil-	1 00 0 01
waukee, Wis., Aug. 27, 28, 29, 1901. 1902. p. 212	A29.3:31
Aerial observers, instructions for. 1898	A29.11:K
Anemometer tests, report on. 1900. p. 58.  Anemometry, general information respecting theory and opera-	A29,6:28
tion of typical instruments for indicating and measuring and	
automatically recording wind movement and direction, etc	A29.11:D
Aneroid barometer, report on. 1898. p. 410.	A29.6:26
Barometer readings, metric and English, erroneous conversion of.	1120.0.20
1898. p. 302	A29.6:26
Barometers and measurement of atmospheric pressure	A29.11:F
Cloud observations and an improved nephoscope. 1896. p. 9	A29.6:24
Cyclones, development and movement of. 1892	A29.2:C99
Earthquake of Oct. 31, 1895, report upon. p. 374.	A29.6:23
Kite experiments at Weather Bureau. 1896. pp. 113, 156, 199,	
238	A29.6:24
Kites, mechanics and equilibrium of. 1897. p. 136	
Kites, use of, in exploration of upper air. p. 201	A1.10:898
Moisture tables. 1898. p. 205	A29.6:26
National Bureau of Standards, circular of information relating to.	A 90 G 90
1902. p. 135 Precipitation, measurement of	A29.6:30 A29.11:E
Psychrometric tables for vapor pressure, relative humidity, and	A28.11.E
temperature of dew-point. 1900	A 20 2-PQ5
Rainfall charting of note on 1902 n 214	A 29 8 30
Rainfall, charting of, note on. 1902. p. 214	A20.0.00
Seismic changes caused by building operations. 1899. p. 582	A29.6:27
Seismograph, Marvin, report on, 1895, p. 250	A29.6:23
Signals, Weather Bureau. 1892. p. 41	A29.3:7
Signals, Weather Bureau. 1892. p. 41 Sunshine, measurement of, and preliminary examination of Ang-	
ström's pyrheliometer. 1901. p. 454. Sunshine recorders, care and management of. 1896.	A29.6:29
Sunshine recorders, care and management of. 1896	A29.11:G <sup>2</sup>
Thermometers, sluggishness of. 1899. p. 458	A29.6:27
Weather Bureau instruments, description of—	A 00 1 001 8
1893. p. 19	A29.1:091
1894. p. 17 1895. p. 14	A 20.1:093
1896. p. 8	
Weather Bureau kite, report on. 1896. p. 418.	
Marvin, Charles Frederick, and Whitney, Milton:	
Soil thermometers, maximum and minimum, combined, instruc-	
tions for use of. • 1894	A29.11:G
Thermometers, maximum and minimum radiation, instructions	
for use of. 1894	A29.11:H
Marvin, Paul. See, as joint author, Kastle, Joseph Hoeing.	
Marvin's weighing rain and snow gauge (Carlisle). 1899. p. 131	A29.3:24
Same, instructions for using	A29.11:E
Marx, Charles D. Irrigation problems in Salinas Valley, Cal., re-	A 10 9.100
port on. 1901. p. 193.  Marx, George. See, for reports as Chief, 1890-93, Illustrations Di-	A10.3:100
vision, Agriculture Department.	
Maryland:	
Army worm and some other insects affecting grain in, outbreak	
of (Ashmead). 1890. p. 53	A9.7:3
of (Ashmead). 1890. p. 53 Climatological studies (Fassig). 1902. p. 200.	A29.3:31
Cold weather in March in, records of 1823–94 (Acworth). p. 126	A29.6:22
Entomological notes from (Johnson). 1896. p. 63.  Farm resources and products of. 1868. p. 63.  Farmers' institute work accomplished in (Amoss). 1902. p. 25.	A9.6:6
Farm resources and products of. 1868. p. 63	A27.9:6
Farmers' institute work accomplished in (Amoss). 1902. p. 25.	A10.3:120
Insects, principal injurious, of year (Johnson), 1897, p. 80,	<b>A9.6:9</b>
same (Johnson). 1898. p. 92	A9.6:17
same (Johnson). 1898. p. 92  Live-stock interests of (Patterson). p. 254  same (Patterson). p. 466	A4.1:886
same (ratterson). p. 400	A4.1:887-8

	Classification no
Maryland—Continued Orchard injuries by red-legged flea-beetle (Schwarz). 1893.	A9.7:5
p. 334.  Pear-tree psylla in (Marlatt). 1894. p. 175.  Pleuro-pneumonia among cattle in, investigation of (Rose). p. 51.	A9.7:7
Resources of, notes on. 1875. p. 378	A27.9:13
(Lowndes). p. 4. San Jose scale in, experiments with lime, salt, and sulphur wash against (Quaintance). 1902. p. 37	A22.4:33 A9.6:37
Southern cattle fever in, outbreak of (Curtice). p. 429	A4.1:887-8 A4.1:884
Weather service, 1st report, notes on (Abbe). 1899. p. 472 See also Calvert County — Cecil County — College Station — Harford County — Kent County — Mardela Springs — Montgomery County — Prince George County — St. Mary County.	A29.6:27
Maryland farm (Bryan farm), birds of (Judd). 1902	A5.3:17
Masaya, Nicaragua, rainfall of (Henry). 1898. pp. 162, 305	A29.6:26
Mason, Frank H.: Animals, dead, disposition of, in Berlin. p. 349 (erroneously	A20.3:9
printed "Frank W.")	A4.1:899
Dogs, muzzling of, in Germany and Great Britain. p. 521	A4.1:900
Dried apples, American, in Germany. 1895. p. 15.  Frankfort-on-the-Main, Germany, cost of hauling farm products	
over wagon roads at. p. 5	A22.4:27 A4.1:899
Brown-tail moth in, report on (Kirkland). 1900. p. 75	A9.6:26
Coccidæ, notes on some (Cooley). 1898. p. 61	A9.6:17
Farm resources and products of. 1868. p. 7	
notes on (Fernald). 1895. p. 59report upon, 1891 (Henshaw). p. 75	A9.6:2 A9.3:26
Insects in, 1901 (Fernald). 1902. p. 119	A10.3:115
Porthetria dispar in, introduction and spread of, and efforts made	
by State to repress and exterminate it (Howard). 1897	
Road laws and road building in (Ross). 1901. p. 34	
See also Blue Hill — Boston — Milton — Northfield — Springfield — West Newbury.	111.14.001
Massee, George:	
Mycological notes. 1889. p. 184. same, continued. 1892. p. 178.	A28.5:5 A28.5:6
Masterson, William W. Somali or black-head sheep. p. 522	A4.1:898
Matas, Rudolph. Man-infesting bot, abstract of paper on. 1888.	
p. 76  Mathematical analysis as applied to terrestrial magnetism, present	A9.7:1
condition of (Schuster). 1895. p. 550	
Same (Abbe). 1900. p. 548.	A29.6:28
Same (Abbe). 1900. p. 548.  Matsumura, M. Japanese insects injurious to fruit, two. 1898. p. 36.  Matter and energy. See Metabolism.	
Matthews, Albert. "Indian summer." 1902. pp. 19, 69	
Cyclone of Dec. 5, 1897 (Claxton). p. 62	A29.6:26   A9.3·15
Icerya, probable origin in (Riley). 1887. p. 27.  Meteorological Society of, notes on (Kimball). 1901. p. 565	A29.6:29
Meteorology and crops, note on (Abbe). 1897. p. 354	A29.6:25
p. 63	A29.6:28
Weather and sugar crop in, 1880-96 (Abbe). p. 412	A29.6:26
1885. p. 108	A1.7:9
1885. p. 108 Maxillary tentacles of pronuba (Smith). 1893. p. 161	A9.7:5

Index	Classification no.
Maxwell, Walter:	District Measure and
Hawaiian Islands, agriculture in, etc. 1898. p. 563	A1.10:898
	A7.3:56
Irrigation in Hawaii, report on. 1900.	A10.3:90
Sorghum-sugar experiments at Morrisville, Va. 1889. p. 63	A7.3:26
Sugar-beet culture in France and Germany, notes on. 1890. p. 81.	
Sugar-beet experiment station at Schuyler, Nebr., annual report	
of. 1891. p. 118	A7.3:33
same, 2d. 1892. p. 43 same, 3d. 1894. p. 37	A7.3:37
Vegetable organisms, fatty bodies in, report on methods of esti-	
mation of. 1890. p. 94  See also, as collaborator, Wiley, Harvey Washington.	A ( . 3 : 28
May, David W.:	
Chemists, Official Agricultural Association of, 1900, convention	A 10 G.19
of, report on. p. 503	
Plant growth, relation of lime and magnesia to, experimental	A10.0.10
study. 1901. p. 37	A19.3:1
study. 1901. p. 37 Wheat, early plowing for. 1900. p. 7	A1.9:122
See also, as joint author, Gibson, H. B.	
May, David W., and Beal, Walter Henry. Plants, leguminous, soil	
inoculation for. 1901. p. 7	A1.9:124
May, weather condition for, statement of average (Garriott). p. 208.	
Maynard, S. T. Mildews upon plants under glass, treatment of.	A 90 F 0
1891. p. 16	A28.5:6
Mayo, N. S.: Texas fever of cattle, transmission of, by cattle tick. p. 481	A 4 1 • QQQ
Texas itch among cattle in Kansas. p. 488	A4.1.808
Tuberculosis among cattle in Kansas. p. 479	
Mead, Elwood:	
Agricultural situation in California. 1901. p. 17	A10.3:100
Duty of water, general instructions to observers. 1899	A10.8:2
Irrigation—	•
public control of. 1901. p. 680	A1.10:901
rise and future of, in U.S. 1899. p. 591	A1.10:899
what the Department of Agriculture is doing for. 1902 Irrigation in U.S., testimony of, before United States Industrial	A10.4:48
Commission, June 11 and 12, 1901. 1901.	A 10 3-105
Irrigation investigations, discussion of. 1900. p. 15	A10.3:86
Irrigation investigations, for 1900, review of. 1902. p. 13	
Mississippi River, and tributaries, water from, abstract of laws	
for acquiring title to, with legal forms in use. 1899	A10.3:60
Reservoirs, some typical, in Rocky Mountain States. 1901. p. 415.	A1.10:901
Scope and purpose of irrigation investigations of Office of Experi-	110 19 001
ment Stations. 1902. p. 417.	A10.12:901
Water rights on Missouri River and tributaries. 1899	A10.3:38
Same (Fuelling). p. 79.	A7 3.26
Same (Fuelling). p. 79.  Meadow culture, Peterson's method of. 1874. p. 433	A27.9:12
Meadow lark and Baltimore oriole (Beale). 1895. p. 419	
Meadows and pastures, formation and cultivation in Middle Eastern	
States (Smith)	A1.9:66
Mealy bugs and their allies (Davis). 1894. p. 168	A9.7:7
Mealy bugs in greenhouses, experiments with hydrocyanic-acid gas	40000
as means of exterminating (Hemenway). 1900. p. 69	A9.6:22
Mealy-wing, cocoanut and guava, report of. 1893. p. 314	A9.7:5
See also Orange mealy-wing.  Means, Thomas Herbert:	
Salt marsh lands, reclamation of. 1901	A26.4:8
Soil survey in—	ALAU, I.U
Cache la Poudre Valley, Colorado. 1900. p. 121	A1.8:64
Salt River Valley, Arizona. p. 287	A26.5:900 <sup>1</sup>
Salt River Valley, Arizona. p. 287 Sanpete, Cache, and Utah counties, Utah. 1900. p. 115	A1.8:64
Soils, soluble mineral matter of. 1898. p. 495	A1.10:898
See also, as joint author, Whitney, Milton.	

	Index
Many Ohaman Harbart and Cardman Grant Duana	Classification no.
Means, Thomas Herbert, and Gardner, Frank Duane:	A1 0.04
Soil survey in Pecos Valley, New Mexico. 1900. p. 36 Soils of Pecos Valley, New Mexico. n. d	
Means, Thomas Herbert, and Holmes, J. Garnett:	1120.1.0
Soil survey around Fresno, Cal. p. 333	$A26.5:900^{1}$
Soil survey of Imperial, Cal. p. 587	A26.5:901 <sup>1</sup>
same. 1902	A26.4:9
Measurements, english vs. metric system of (Abbe). 1901. p. 73 Measures. See Weights and measures. Meat:	A29.6:29
Analysis of, testing of apparatus and method (Schweitzer and	
Fox 1891 p 40	A7.3:31
Australian trade (Reynolds). p. 92.	A4.1:893-4
Berlin consumption. 1890. p. 45	A27.9:28
Bread and, consumption in Missouri, data relating to (Gibson	
and others). 1896	A10.3:31
Canned, chemical examination of (Wiley). 1899	A7.4:5
Composition and cooking (Woods). 1896	A1.9:34
Cooking, losses in, experiments on, 1898–1900 (Grindley and others). 1901	A10.3:102
Curing of. p. 97	
Dressed—	111.1.000-0
freight rates on, from Chicago to New York. 1895. p. 553. same. 1896. p. 598.	A1.10:895 A1.10:896
traffic in United States, answers to questions regarding (Col-	111.10.000
man), $p. 277$	A4.1:886
European consumption. 1876. p. 498	A27.9:14
Federal inspection (Salmon). 1894. p. 67	A1.10:894
Fresh, shipments of, to Europe. p. 312	A1.1:876
same, p. 374 :	A1.1:877
German imperial inspection law, translation and German text of.	A.4.1.000
p. 523same. 1901	A.4.1:800 A.4.4:20
Great Britain (Halstead). p. 508.	A4 1.900
Importation into Germany from U.S. 1896. p. 100.	A4.1:893-4
Industries of United States (Clark). p. 359	
Inspection of, for animal parasites. 1898	
London consumption. 1874. p. 460	
Meat products and—	1 T O OF
Analysis of provisional methods for (Bigelow) 1902. p. 7	A7.3:65
At Paris Exposition, 1900 (Alvord). p. 223	A4.1:900 A4.1:904
Packing, salt used in. p. 491same. 1884. p. 288	A4.1.004. A4.2.An5
Pathological conditions found in inspection (Salmon). p. 52	
Preserved, adulterations of (Bigelow and others). 1902. p. 375.	
Products, export trade in. 1889. p. 69	A1.1:889
$_{1}$ same, p. 22	<b>A4</b> .1:889 <b>–90</b>
same. p. 10	A4.2:B39
Question analyzed (Sprague). p. 462	A1.1:883
Salted, inspection of, for export. p. 88	A1.1:89U A4 1.000 00
same, p. 76. Shanghai inspection (Blackwood). p. 205.	A4 1.808
South Africa (Stowe). p. 512	A4.1:900
South Africa (Stowe). p. 512  See also Bacon—Canned meats—Pork—Preserved meat—Live	
stock — Sansages.	
Meat or cheese skipper (Murtfeldt). 1893. p. 170	A9.7:6
Mechanic arts:	
Colleges of. See Agricultural colleges. Student engrantice of (Hoffman) 1001 n 106	A 10. 9-00
Student apprentice of (Hoffman). 1901. p. 186	A10.3:99
leges and Experiment Stations, report of:	
1893. p. 95	A10.3:20
1893. p. 95 1894. p. 89	A10.3:24
1895. pp. 18, 97.	A10.3:30
1896. pp. 26, 111	A10.3:41
1897. pp. 38, 91	A10.3:49
1898. p. 134	A10.3:85
•	

	Index
	Classification no.
Meng, J. S. Phosphoric acid, additional notes on. 1892. p. 27	
Menhaden fisheries of Long Island. 1870. p. 39	A27.9:8
Menozzi, —. Volatile acids, variations of, in butter fat. 1890.	A7.3:24
Mercer, A. S.:	111.0.21
California cattle, destruction of, by various diseases; with report	
of autopeies by Dr. Bowhill. p. 452	A4.1:887-8
Cattle industry of California. p. 239.	A4.1:886
Merchandise, domestic, total value of exports of, 1890–95. p. 551	A1.10:895
Same, 1890-96. p. 596.  Merino ram "Ontario," account of. p. 355	A1.10:890 A1.1:866
Merinos:	111.1.000
American, of Vermont. p. 484	A1.1:865
Spanish, and their management (Boynton). p. 196	A1.1:864
Merriam, Clinton Hart:	
Arvicolinæ, description of new genus (Phenacomys) and four	AE E.O
new species of. 1889. p. 27  Bats, free-tailed—	A5.5:2
from desert region of southern California, description of new	
species of. 1889. p. 23.	A5.5:2
from lower Colorado River, Arizona. 1889. p. 25	A5.5:2
Biological reconnaissance of south-central Idaho. 1891	A5.5:5
Biological Survey, Agriculture Department, work of for farmer.	4 4 4 0 0 0 0
1897. p. 115	A1.10:897
Biological survey of San Francisco mountain region and desert of Little Colorado, Arizona. 1890	A K 5.9
Birds which feed on mulberries. p. 285.	A1.1:890
same n 285	A5.1:890
Cactuses, yuccas, and agave, geographic and vertical distribution	
of, in deserts and desert ranges of southern California, south-	
ern Nevada, northwestern Arizona, and southwestern Utah.	
1893. p. 345	A5.5:7
Evotomys, new, from—  Black Hills of South Dakota, description of. 1890. p. 119	A5.5:5
Colorado, description of. 1890. p. 23	A5.5:4
Colorado, description of. 1890. p. 23	A5.5:4
Forest trees of San Francisco mountain region, Arizona. 1890.	
p. 119	A5.5:3
Geographic distribution of animals and plants in North America.	A 1 10.004
p. 203Grasshopper mouse, descriptions of two new species and one new	A1.10:894
subspecies of. 1889. p. 1	A5.5:2
Ground squirrels—	120.012
five new, of genus Tamias, descriptions of. 1890. p. 17	A5.5:4
new species of, from arid lands of the Southwest, description	
of. 1889. p. 19three new, of Spermophilus spilosoma group, descriptions of.	A5.5:2
1890. p. 37 group, descriptions of	A5.5:4
Hesperomys, new species of, from southern Florida, description	A0.0.4
of. 1890. p. 53.	A5,5:4
Kangaroo rats, three new, descriptions of, with remarks on iden-	
tity of Dipodomys ordii of Woodhouse. 1890. p. 41	A5.5:4
Life zones and crop zones of U.S. 1898	A5.3:10
new genus and two new species of, description of. 1891. p. 115.	A5.5:5
North American—	20.0.0
descriptions of fourteen new species and one new genus.	
1889	A5.5:2
twenty-six new species of, description of. 1890	A5.5:4
small, measurement of, and preparation of museum skins,	AK 4.11
brief directions for. 1889	A5.4:11
p. 7	A5.5:2
Marten, new (Mustela caurina), from northwest coast region of	
United States, description of. 1890. p. 27  Mink, special report on. p. 488  same, p. 488	A5.5:4
Mink, special report on. p. 488	A1.1:888
same, p. 488	A5.1:888

Index	Classification no.
Merriam, Clinton Hart—Continued	Classingson MAP
Molossus, new species of, from California, description of. 1890.	
p. 31	A5.5:4
Pheasants, introduced, special report on. p. 484	A1.1:888 A5.1:888
same, p. 484. Pika, new species of, from Sierra Nevada Mountains, Cal., descrip-	A5.5:2
tion of. 1889. p. 11. Pocket gopher, of genus Geomys, from western Nebraska, descrip-	A0.0.2
tion of. 1890. p. 51.	A5.5:4
Pocket gophers, family Geomyidæ, exclusive of species of Thom-	4550
omys, monographic revision of. 1895	A0.0:8 A5.5-1
Prairie dog—	
destruction of directions for	A5.4:32
new, from Wyoming, description of. 1890. p. 33	A5.5:4
of Great Plains. 1901. p. 257.  Rainfall and charts of rainfall. 1902. p. 229.	A1.10:301 A29.6:30
Shasta, Mount, Cal., biological survey of. 1899	<b>A5</b> .5:16
Shrews, American, of genus Sorex, synopsis of. 1895. p. 57	A5.5:10
Shrews of American genera Blarina and Notiosorex, revision of.	A5.5:10
1895. p. 5 Skunks, little striped, of genus Spilogale, contribution toward	A0.0:10
revision of. 1890. p. 1	A5.5:4
Spermophile, new, from—	4550
• Arizona, northwestern, description of. 1889. p. 17	A5.5:2
Trees and shrubs, distribution of, in deserts and desert ranges of	A0.0.2
southern California, southern Nevada, northwestern Arizona,	
and southwestern Utah. 1893. p. 285.	A5.5:7
Weasels of North America, synopsis of. 1896	A5.5:11
culture Department, 1897 and 1902	A5.1:
See also, for reports as Chief, Ornithology and Mammalogy Divi-	
sion, 1886–1896 See also, as editor, Cooke, Wells W.; as collector, Stearns, Robert	A5.1:
Edwards Carter — Stejneger, Leonhard.	
Merrick, E. C. Pacific coast, climate of. p. 280	A1.1.867
Merrill, Elmer D.:	49.4.94
Aristida purpurea nutt., and its allies. 1901	A3.4:32
Grasses—	110,110
nomenclature of, some changes in. 1901. p. 5	A3.4:35
some species of, published by S. B. Buckley. 1901	A3.4:35 A19.3.9
See also, as joint author, Scribner, Frank Lamson.	1110.0.0
Merrill, L. H. See, as joint author, Woods, Charles Dayton.	
Merrill, Lewis A. Vaccination against blackleg in Utah. p. 469	
Merry, G. Factory cheese and how it is made. 1896. p. 45	A4.4:19
Mersivan, Turkey, temperature and rainfall at (Abbe). 1897. p.	· _
245	A29.6:25
Mesmer, Louis. See, as joint author, Heileman, W. H. — Holmes, J. Garnett.	·
Mesquite tree as tanning material (McMurtrie). 1873. p. 31	A27.9:11
Metabolism:	
Effects of severe and prolonged muscular work on (Atwater and Sherman). 1901	A10:3:98
Experiments in which balance of income and outgo was deter-	1110.0.00
mined, digest of (Atwater and Langworthy)	A10.3:45
Experiments on effect of muscular work upon digestibility of food and metabolism of nitrogen, conducted at University of	
Tennessee, 1897-1899 (Wait). 1901	A10.3:89
same, 1899–1900 (Wait). 1902	A10.3:117
Experiments on metabolism of matter and energy in the human	A 10, 9.60
body (Atwater and others) same, value of (Langworthy). 1898. p. 1003	A10.3:69   A10.6:9
same, 1900 (Atwater and others)	A10.3:109

•	Index
	Classification no.
Metabolism—Continued  Experiments on metabolism of nitrogen, sulphur, and phosphorus	
in human organism (Sherman). 1902.	A10.3:121
Milch cows, investigations on (Hagemann). 1899. pp. 803, 903 Nitrogen and carbon in human organism, metabolism of, with respiration calorimeter of special construction (Atwater and	A10.6:10
others). 1897. Nutrients in animal body, metabolism of, and source of muscular	A10.3:44
energy (Zuntz). 1897. p. 538	A10.6:7
Metabolized nitrogen, excretion of, by animals (Langworthy). 1897. p. 817	A10.6:7
Metal railway tracks. See Railway tracks.	
Metals. See Aluminum — Copper — Iron — Lead. Metaphosphoric acid. See Cotton seed meal.	
Meteor:	
Bright—	100 0.05
note on (Abbe). 1897. p. 261	A29.6:25 A29.6:26
same (Abbe). 1898. pp. 20, 318, 569report on (Hazen). 1897. p. 484	A29.6:25
Iowa, of March 27, 1894 (Abbe). p. 128	A29.6:22
Noise made by (Abbe). 1895. p. 57	
November, notes on (Kimball). 1901. p. 509	
Meteoric story, sensational, note on (Abbe). 1898. p. 363	
Meteorologic waves, report on (Hazen). 1899. p. 323	A29.1:898
Meteorological and other forms and reports: should they be simpli-	100 0 01
fied? are modifications desirable? (Evans). 1902. p. 168 Meteorological balloon ascension at Strassburg, Germany (Rotch).	A29.3:31
1901. p. 298	A29.6:29
Meteorological cablegrams, notes on (Abbe). 1900. pp. 248, 448	
Meteorological century, note on (Abbe). 1900. p. 591	
Meteorological charts of Great Lakes  Meteorological commission, proposed, note on (Abbe). 1901. p. 312.	A29.13; A29.6:29
Meteorological committee, international:	
Note on (Abbe). 1899. p. 103	
Proceedings of (Abbe). 1900. p. 446	
Report on (Kimball). 1902. p. 134	A29.6:30
Meteorological congresses. See Chicago — Mexican national meteoro-	
logical congress — Paris.  Meteorological institute of Prussia, work of notes on (Abbo) 1901	
Meteorological institute of Prussia, work of, notes on (Abbe). 1901.	A29.6:29
Meteorological institution, Royal Prussian, celebration of semi-	
centennial of (Abbe). 1897. p. 491.	A29.6:25
Meteorological journal, new, notes on (Abbe). 1900. pp. 160, 252	A29.6:28
Meteorological library, note on (Abbe). 1900. p. 208	
(Abbe). Aug., 1893–Oct., 1902	A29.6:
[Individual articles are entered in this index under their specific subjects.]	A 90. G.
Monthly (Kimball)	A29.6:
Meteorological notes by Wm. Scoresby, jr., report on (Abbe). 1897.	
	A29.6:25
p. 62.  Meteorological notes from Porto Rico (Geddings). 1900. p. 287  Meteorological observations:	A29.6:28
Alaska, 1894 (Tibbey), p. 174	A29.6:22
Bayonne, N. J., during burning of plant of Standard Oil Company	
at, July 5, 6, and 7, 1900 (Mitchell). p. 325.  Circle City, Alaska (Holt). 1896-98. p. 542.  Eagle, Alaska (Henry). 1900. p. 390.  Hacienda Perla, Puerto Rico (Hansard). 1898. p. 407.	A29.6:28
Circle City, Alaska (Holt). 1896–98. p. 542	A29.6:26
Hagier de Porte Prorte Pice (Hanco-d) 1909 - 407	AZ9.5:28
Havana, Cuba, notes on (Abbe). 1898. p. 407	AZV.0:Z0 A 90 A 9A
Honolulu, Hawaiian Islands, monthly, March, 1894-April, 1901	
(Lyons)	A29.6:
(Lyons) Influence on vegetation (Schreiber). 1895. p. 395 International, summary of (Dunwoody). 1893 Klandika vote on (Abba). 1898. p. 253	A20.3:11" A20 K. A
Klondike, note on (Abbe). 1898. p. 253	A29.6:26
ANTORINATED, ALONO OIL (ANDRO). LOUD: \$70 MODE	

	Classification 1
Meteorological stations—Continued	
Harvard University, note on (Abbe)—	
1897. p. 540	A29.6:25
1897. p. 540 1901. p. 69	A29.6:29
Highest station in world, visit to (Ward), 1898, p. 150	A29.6:26
Mountain, in Australia (Abbe). 1898. p. 166	A29.6:26
Needed, new, notes on (Abbe). 1900. p. 556	A29.6:28
Publication of results of observations (Hann). 1894. p. 1	A29.3:11 <sup>1</sup>
Rockall as, note on (Abbe). 1898. p. 311.	
Seismographs at (Abbe). 1897. p. 259.	
Tierra del Fuego, notes on (Abbe). 1897. p. 493	A 29.6:25
Meteorological superstitions, notes on (Abbe). 1898. p. 216	A 29.6:26
Meteorological symbols, international (Abbe). 1898. pp. 311, 414.	A 29.6:26
Meteorological tables:	1120.0.20
Monthly temperature, rain, etc., from Smithsonian Institution,	
June, 1863-Jan., 1872	A27.9:
Monthly, July, 1891-May, 1895; June, 1895-Apr., 1902 (Henry).	A29.6:
Meteorological tables and charts, monthly, description of, May-Oct.,	A20.0.
	A29.6:30
1902 (Stockman)	A28.0:50
Meteorological terms:	100.0.00
New, note on (Abbe). 1900. p. 18	A29.0:20
Objectionable, note on (Abbe). 1900. p. 115	A29.0:28
Meteorological use of term "local" (Abbe). 1898. p. 207	A29.6:25
Meteorological work:	
Agricultural experiment stations and agricultural colleges and	
their relations to Weather Bureau (Harrington). 1892. p. 42.	
Agricultural institutions (Harrington). 1892	
Alaska (Henry). 1898. p. 154	A29.6:26
India, history of (Kimball). 1902. p. 31	A29.6:30
Outline of scope and character of, in Franz-Josef land, 1898-99.	
(Baldwin). 1901. p. 351	A29.1:900
Smithsonian Institution (Langley). 1895. p. 216	A29.3:11 <sup>2</sup>
United States Signal Service, 1870 to 1891 (Abbe). 1895. p. 232.	A29.3:11 <sup>2</sup>
See also Meteorological observations.	
Meteorologist:	
Astronomy for, note on (Abbe). 1898. p. 562	A29.6:26
Work of, for benefit of agriculture, commerce, and navigation	
(Bigelow). 1899. p. 71	A1.10:899
Meteorology:	
Abstracts of reports of agricultural experiment stations on, 1889—	
1902	A10.6:
Addresson, at British association, Belfast (Schuster). 1902. p. 448.	A29.6:30
Agricultural—	
notes on, with special reference to rainfall element (Linney).	
1899. p. 85	A29.3:24
report on. p. 97	
same, p. 113	
Argentina (Abbe). 1902. p. 315	
Army medical department, connection with development in	
(Smart), 1895, p. 207	A29.3:11 <sup>2</sup>
Belgium, history of, notes on (Abbe). 1901. p. 69	A29.6:29
Bibliography of American contributions to, note concerning	
(Fassig). 1895. p. 326	A29.3:11 <sup>2</sup>
Brooklyn Museum of, notes on (Abbe). 1900. p. 163	A29.6:28
Climate and, of Death Valley, Cal. (Harrington). 1892	A 29.3:1
Climatology vs. (Whitney), 1898, p. 301	A29.6:26
Climatology vs. (Whitney). 1898. p. 301 College course, notes on (Abbe). 1900. p. 543	A29.6:28
Colleges; to what extent is it taught at present; should it be	1120.0.20
offered as an undergraduate or as a postgraduate course?	
(Loveland). 1902. p. 90.	A29.3:31
Conditions favorable to spontaneous combustion, note on (Abbe).	************
1000 040	A29.6:28
Conditions following St. Vincent and Martinique eruptions, 1902	4140.U.4C
(Kimball) n 987	∆ 90
Constants and units used in materian (Abba) 1908 - 489	A 90 R-91
(Kimball). p. 267	A 90 R 92
Costa Rica, notes on (Abbe). 1900. p. 541. Crops and, Mauritius, note on (Abbe). 1897. p. 354.	A 90 A 95
orope and, maurinus, note on (Appe). 1897. [9. 304]	A40.U.4U

Index	(Massification no.
Meteorology—Continued	(.IERSIECELIOE EO.
Cycles in—	
notes on (Abbe). 1897. p. 544report on (Abbe). 1897. p. 57	A29.6:25
report on (Abbe). 1897. p. 57	A29.6:25
Data collected, use of (Palmer). 1902. p. 178	A29.3:31
Eclipse and allied problems (Bigelow). 1902	A29.5:1
Ecuador, note on (Abbe). 1900. p. 67	A29.6:28
Elementary—	1.00 0.05
talk on (Davison). 1899. p. 144.	A29.6:27
text-books and works of reference for students of (Phillips).	A 90
1902. p. 408 English literature, 1337–1699 (Symons). 1895. p. 338	A 29.0:30 A 90. 9.11 \$
English literature, 1557–1699 (Symons). 1695. p. 556	A29.5:11 - A 90. g.9g
Extremes at Northfield, Mass. (Elmer). p. 251	A 20.0:20 A 90. 8:98
France, notes on (Abbe). 1898. p. 553 French Indo-China, notes on (Abbe). 1901. p. 263 Geodesy and, notes on (Abbe). 1900. p. 545	A 20. 0.20 A 90. R.90
Goodegy and notes on (Abba) 1900 n 545	A 20 R · 28
Geography and, popular errors in (Abbe). 1901. p. 375.	A 29 6 29
Geological Survey, note on (Abbe). 1897. p. 541	A 29.6.25
Great Britain, notes on (Abbe). 1899. p. 109	A 29.6:27
Hawaii (Kimball). 1902. p. 364	A29.6.30
Hawaii (Kimball). 1902. p. 364. Higher, in Weather Bureau (Bigelow). 1902. p. 19.	A29.3:31
Historical events in, note on (Abbe), 1900, p. 17.	A29.6:28
Historical events in, note on (Abbe). 1900. p. 17	A29.3:11 <sup>s</sup>
Instruments, elastic suspension for (Abbe). 1894. p. 25	A29.6:22
Is every seventh year a wet one? 1865. No. 6. p. 15	A27.9:3
Italian mountains (Denza). 1896. p. 659	A29.3:11 <sup>3</sup>
Johns Hopkins University (Fassig). 1898. p. 306	A29.6:26
Julius Hann's (Bigelow). 1902. p. 298	<b>A2</b> 9.6:30
Kites in, new field for (Kimball). 1901. p. 419	A29.6:29 ·
same, notes on (Abbe). 1896. p. 416	A27.6:24
Laboratory work in (Kimball). 1902. p. 313	A29.6:30
Lectures on—	
in schools, note on (Abbe). 1900. p. 19	A29.6:28
notes on (Abbe). 1900. pp. 164, 208	A29.6:28
popular, including lectures to farmers' institutes, social gather-	
ings, societies, etc.; are such lectures valuable in proportion	
to time given? what should be the general character of	A 00. 9.91
such lectures? (Smith). 1902. p. 92	A 20, 5:51 A 90, 8:90
Lunar influences in, notes on (Abbe). 1901. p. 315	A 20 R 20
Magnetism and—	A20.0.20
notes on, monthly. Oct., 1894–Feb., 1895	A 29. 6
report on, monthly, March, 1895-June, 1896 (Bigelow)	A 29.6:
Mathematics and, notes on (Abbe), 1898, p. 267	A29.6:26
Mathematics and, notes on (Abbe). 1898. p. 267	A29.6:28
Mexico, brief sketch of development of (Aquilar y Santillan).	
1895. p. 335	A29.3:11 <sup>2</sup>
See also Mexican National meteorological congress.	
Monthly list of papers bearing on, Jan., 1899—Dec., 1902 (Phillips).	A29.6:
Mountain stations for (Abbe). 1902. p. 410	A29.6:30
New elementary treatise on (Abbe). 1898. p. 563	A29.6:26
North Atlantic, monthly notes on, Jan., 1894-June, 1895	A29.6:
Obscure points in, notes on (Abbe). 1899. p. 108	A29.6:27
Optical, circumhorizontal arc in (Besson). 1902. p. 486	A29.6:30
Panama—	100 0.00
contributions to (Abbot). 1899. p. 7	A20.0:28
report of, 1899 (Abbot). p. 463	A20.0:27
See also Paris international metaprological congress	A25.0.26
See also Paris international meteorological congress.  Periodic terms in, due to rotation of sun on its axis (Bigelow).	
4005 800	A29.3:11 <sup>2</sup>
1895. p. 500 Periodicity in, notes on (Abbe). 1900. p. 547	A29.6:28
Photography in, notes on (Abbe). 1900. p. 159.	A29.6:28
Physics and—	
in universities (Abbe). 1899. p. 258	A29.6:27
notes on. 1902. p. 445	A29.6:30
Present status of, notes on (Abbe). 1899. p. 313	A29.6:27

Classification no. Meteorology—Continued Primary work for use of schools (Connor). 1899. p. 102...... A29.3:24 Public health and, relation between (Phillips). 1895. p. 171... A29.6:23 Public schools how much should be attempted; methods of teaching (Chaffee). 1902. p. 85 A29.3:31 note on (Abbe)— 1894. p. 512 A29.6:22 1896. p. 458 ...... A29.6:23 Recent publications on (McCarty). 1896. pp. 76, 112, 153, 198... A29.6:24 Redfeld and Espy period of, 1830 to 1855 (Davis). 1895. p. 305. A29.3:11<sup>2</sup> Report on— **1863**. 1864. (Grosh). p. 571 ..... A1.1:865 **1865**. (Grosh). p. 611 A1.1:866 (Grosh). p. 429 A1.1:867 1866. 1867. p. 612 ..... A1.1:868 1868. 1869. 1870. p. 621

Russia, notes on (Abbe). 1899. p. 103. A29.6:27
Schools and, relation of (Kimball). 1902. p. 131. A29.6:30
Searchlight in, use of (Abbe). 1897. p. 206. A29.6:25 Solar and terrestrial magnetism in relation to (Bigelow). 1898... A29.3:21 Solar magnetism in relation to (Bigelow). p. 519..... A29.1:891<sup>3</sup> South African, notes on (Abbe). 1900. p. 13..... A29.6:28Statistics of, how to improve them to meet needs of medical profession, etc. (McGann). 1899. p. 80..... A29.3:24 same (Wilson). 1899. p. 82..... A29.3:24Study of by correspondence (Abbe). 1898. p. 267 A29.6:26 under existing conditions of Weather Bureau station work, is it practicable to require assistants to pursue a systematic course of? (Salisbury). 1902. p. 82..... A29.3:31 Subjects in, explanation of (Newcomb). 1902. p. 127.
Sun spots and, notes on (Abbe). 1901. p. 263.
Teaching of, by laboratory method. 1899. p. 468. A29.6:30 A29.6:29A29.6:27 Terrestrial magnetism and, in 15th, 16th, and 17th centuries, contribution to bibliography of (Hellman). 1895. p. 352.....  $A29.3:11^2$ Text-book of, Julius Hann's, note on (Abbe). 1901. p. 74..... A29.6:29 Theoretical, in U.S., 1855 to 1870, some remarks on (Waldo). A29.3:11<sup>2</sup> 1895. p. 317 . . . . . Thermometric scale used in (Abbe). 1895. p. 255..... A29.6:23 Universities and, notes on (Abbe)— 1899. pp. 155, 420, 549 A29.6:27
1900. p. 165 A29.6:28 1901. p. 264 Weather Bureau men as instructors in, notes on (Abbe). 1900. A29.6:29A29.6:28Wellmann expedition, 2d, notes on (Abbe). 1898. p. 167..... A29.6:26 What meteorology is doing for farmer (Harrington). 1894. p. 117. A1.10:894 Yukon, report on (Myers). 1899. p. 100..... A29.6:27 See also Barometer—Blizzard—Climate—Climatology—Eclipse— Marine Meteorology Division — New England Meteorological Society — Pogonip — Sulphur rains — Sun spots — Weather. Meteorology and the growth of the beet (Davy). 1879. p. 284..... A1.6:28 Meter, value of the, note on (Abbe). 1897. p. 19..... A29.6:25 Metric system: 

 Austria. 1873. p. 189.
 A27.9:11

 English vs., notes on (Abbe). 1901. p. 73
 A29.6:29

 A29.6:29 Explanation of— 1897. p. 672 ..... A1.10:897

	Classification no
Mexican cotton-boll weevil:	11 10 001
Present status of, in U.S. (Hunter). 1901. p. 369	A1.10:901
1895. (Howard)	A9.5:61
same (in Spanish)	A9.5:62
1896. Revised	A9.5:14 <sup>1</sup>
same (in Spanish). 1896.	A9.5:14*
1897. Revised same (in Spanish). Feb., 1897	A9.5:18 <sup>1</sup> A9.5:18 <sup>2</sup>
same (in German). Feb., 1897.	A9.5:18*
1897. Revised	A9.5:27
1898. Supplementary	A9.5:33
1901. (Mally)	A1.9:130 A9.7:7
See also Cotton insects.	AO. I . I
Mexican grasses:	
Collected by E. W. Nelson in Mexico, 1894-95 (Scribner and	
Smith). 1897. p. 11 New, description of (Vasey). 1893. p. 281	A3.3:4
New, description of (vasey). 1893. p. 281	A0.0:1 A2 4:10
Some recent collections of (Scribner and Merrill). 1900. p.5	
Mexican national meteorological congress—	110.0.51
1st, notes on (Abbe). 1900. p. 557	A29.6:28
2d, notes on (Kimball). 1901. p. 512	A29.6:29
Marian talament company stations of note on (Abba) 1900	A29.6:30
Mexican telegraph company, stations of, note on (Abbe). 1900. p. 112	A29.6:28
Mexican umbelliferæ, mostly from state of Oaxaca, recently collected	1120.0.20
by C. G. Pringle and E. W. Nelson (Coulter and Rose). 1895.	
p. 289	A6.5:3
Mexico:	A 97 O-99
Agricultural production of, for 1889 and 1892	A27.9:32 A27.9:22
same. 1887. p. 491	40-0-
Cattle industry (Griffith). p. 503	A4.1:900
Climate of. 1894. p. 333	A27.9:32
Climatological data, monthly, notes on, Jan., 1896-July, 1899	A 90 C.
(Abbe); Sept., 1899—Oct., 1902 (Pastrana)	A29.6: A29.6:20
Coccidæ, new, collected in, by C. H. T. Townsend, notes and	A28.0.20
descriptions of (Cockerell). 1896. p. 31	A9.8:4
Coffee in, cultivation of (Foster). 1876. p. 268	A27.9:14
Commerce between U.S. and, for 1873, 1878, 1883, 1888, and 1893.	A27.9:32
p. 492	A27.9:32
p. 59	A8.1:4
Ferns collected in, by J. N. Rose during months of August and	
September, 1897 (Davenport). 1897. p. 146	A6.5:5
Insects affecting stored cereal and other products in (Chittenden).	A9.8:4
1896. p. 27	A9.8:4
Insects of economic importance in, report of trip to investigate	120.0.1
(Townsend). 1896. p. 9	A9.8:4
Lichens from, collected by Edward Palmer, from 1888 to 1892,	1
list of (Eckfeldt). 1893. p. 291	A6.5:1
Maize of United States in, use of. 1893. p. 256	A4.3:41
Meteorology in, brief sketch of development of (Aquilar y San-	111.0.11
tillan). 1895. p. 335	A29.3:11 <sup>2</sup>
See also Mexican national meteorological congress.	
Plants—	
mostly new, from U. S. and, descriptions of (Rose). 1895.	A6 5:3
p. 311	A6.5:5
	110.0.0
Public lands in, prices of 1889. p. 522	A27.9:27
Railways of, statement of. 1894. p. 355	1 A27.9:32

	Index
Mexico-Continued	Classification no.
Statistics of, 1890. p. 344	A27.9:28
Storms, local, on west coast of (Rogers), 1894, p. 510	A29.6:22
Water supply and irrigation in. 1885. p. 223	A15.2:Ir7 <sup>1</sup>
Weather forecasts in, notes on (Abbe). 1900. p. 540	A29.6:28
Weather map for, daily (Abbe). 1899. p. 107	A29.0:27 A20 8:20
Western, list of plants collected in, by Edward Palmer in 1890	1120.0.20
(Vasey and Rose). 1890. p. 63	A6.5:1
See also Acapulco — Alamos — Cedros Island — Colima — El Paso	
del Norte — Guaymas — Lower California references —	
Oaxaca — San Benito Island — Sonora — Tampico — Tres Marias Islands — Tuspan — Vera Cruz.	
Mexico, City of, climate of (Bárcena). 1896. p. 601	A29.3:11*
Mexico, Gulf of:	
Cold waves on middle coast (Garriott). 1895. p. 334	A29.6:23
Northers in, notes on (Abbe). 1898. p. 568.	
Storms of, tropical, in September, 1895 (Garriott). p. 167	A29.6:23
1896. p. 652	A29.3:11 <sup>3</sup>
Meyers, John A. Germany, shipping horses to, experience and obser-	
vation in. 1898. p. 35	A1.2:H78
Miami, Mo. Glanders at, outbreak of (Trumbower). p. 457	A4.1:884
Mice. See Evotomys — Grasshopper mouse — Jumping mice — Pocket mice.	
Michener, Ch. B.:	
Horse—	
digestive organs of, diseases of. p. 15	A4.2:H78
medicines to, methods of administering. p. 9	A4.2:H78
wounds of, and their treatment. p. 447.  Missouri, cattle in, outbreak of disease among. p. 387	A4.2:H78 A41.990_00
See also, as joint author, McLean, L.	14.1.000-00
Michener, E. Agricultural ornithology. p. 287	A1.1:863
Agricultural statistics. 1869. p. 378*	A27.9:7
Cattle trade and allied industries of (Perry). p. 125	A4.1:886
Farm resources and products of. 1868. p. 189	
Fruit culture in, 1872–73. p. 45	
Fruit region, facts relating to (Clubb). 1870. p. 37	
Insects, injurious in, some notes recorded on (Townsend). 1889.	
p. 42	A9.7:2
San Jose scale in, present status of (Barrows). 1897. p. 27	
Snow, yellow, in (Kimball). 1902. p. 29	A29.6:24
Western, fruit culture in. 1868. p. 322	A27.9:6
See also Allegan County — Detroit — Kalamazoo.	
Michigan, Lake:	1.07.0.4
Eastern shore of, agricultural notes on. 1866. p. 415	A27.9:4 A27.9:7
Mirage over, notes on (Abbe). 1900. p. 544	A29.6:28
Micro-organismal diseases, laboratory methods for diagnosing of	
certain (Dawson). p. 335	A4.1:898
Micro-photographs of snow crystals, notes on (Abbe). 1900. p. 541	A29.6:28
Microscopic investigations along agricultural lines, monthly (Taylor).  May, 1872, to Dec., 1876	A27.9:
Microscopic investigations as to internal parasites in domestic fowls,	1121.0.
and butter and fats (Taylor). 1884	A1.8:34
Microscopical examinations of fruits and fruit products (Howard).	
1902. p. 103.	A7.3:66
Microscopists, instructions for, in examination of pork for trichina.	A4.2:P42
Microscopy Division, Agriculture Department	
Microtome, work of, letter to T. Taylor (Lyman). 1881	
Microtus. See Voles, American.	1
* By a migneint this rage number appears twice	

<sup>\*</sup>By a misprint, this page number appears twice.

ingex	Classification no.
Middle States:	•
Beef cattle in, feeding (Lodge). p. 212  Fruits and fruit trees of, propagation, influence of stocks, diseases,	
and enemies (Lodge). p. 199  Tree-planting for profit in. 1872. p. 293	A1.1:865
Wine-making and vine culture in (Lodge). p. 118	A27.9:10
See also Names of States.	A1.1.000
Middling cotton. See Cotton.	
Migration of weeds (Dewey). 1896. p. 263.  Mik, Joseph. Ugimyia sericarlæ rond, parasite of Japanese silk-	A1.10:896
worm. 1891. p. 113	A9.7:4
Milan, Italy, cost of hauling farm products over wagon roads at	
(Spagnoli). p. 10	A22.4:27
Milch cows. See Cows.	
Mildew: Notes on. 1863. No. 3, p. 13	A 27 Q · 1
Upon plants under glass, treatment of (Maynard). 1891. p. 16.	A28.5:6
See also Grape mildew and references.	
Miles, Nelson Appleton. Good roads, importance of, in war and	4.00 0.0°
peace. 1902. p. 39	A22.3:25
(Atherton). 1901. p. 85	A10.3:99
Milk:	
Acidity in, determination of (Van Slyke). 1893. p. 117	A7.3:38
Acidity of cream and, determination of (Hopkins and Powers).	A 7 3·47
1895. p. 125 Albumen in cow's milk, determination of (Van Slyke). 1894.	A1.0.31
p. 188	A7.3:43
Albuminoids in, estimation of (Sebelien). 1889. p. 169	A7.3:24
Analysis of, with view to determining its adulterations (Bourcart),	A7.3:24
1889. p. 167 As food. 1898.	A1.9:74
Bacteria in freshly drawn milk, preliminary investigations con-	
cerning number and nature of (Moore). p. 261.	A4.1:895-6
Bacteria in, inefficiency of separators in removing (Moore). 1895. p. 431.	A1.10:895
p. 431	A7.3:24
Boston and other New England cities, supply of (Whitaker).	
1898 Rutter fet in groom on wethod of determining by difference (Mo	A4.3:20
Butter fat in cream or, method of determining, by difference (Mc- Keown). 1894. p. 194	A7.3:43
Canstadt, report on (Zeitler). 1890. p. 153	A7.3:24
Care of, on the farm (Pearson). 1897	A1.9:63
Casein in cow's milk, determination of (Van Slyke). 1893. p. 109. Citric acid in, report on (Soulhet). 1889. p. 155	A7.3:38 A7.3:24
City supply of. p. 332	A1.1:872
City supply of. p. 332	A7.3:31
Condensed—	
composition of (Shenstone). 1890. p. 149	A7.3:24 A27.9:6
Cream from deep or shallow setting of, comparative amount of.	1121.0.0
1872. p. 513	A27.9:10
Curdled, fat in, estimation of content of (Kuehn). 1890. p. 162. Diphenylamine reaction in examination of, significance of (Mös-	A7.3:24
linger). 1889. p. 168	A7.3:24
linger). 1889. p. 168  Examination of (De Schweinitz). p. 147	A4.1:89#
Facts about (Pearson). 1896	A1.9:42
Fat in— determination by—	
gravimetric method (Dietrich). 1890. p. 159	A7.3:24
Patrick method. 1890. p. 163	A7.3:24
gravimetric method (Dietrich). 1890. p. 159 Patrick method. 1890. p. 163 Röse's method. 1888–89. p. 160	A7.3:24
Soxniet's areometric inethod (Niem). 1888. p. 163	A 7.3:24
Soxhlet-Engström and Schmoeger-Neubert method (Kühn). 1890. p. 158. Werner-Schmidt method (Stokes). 1890. p. 158.	A7.3:24
Werner-Schmidt method (Stokes). 1890. p. 158	A7.3:24
estimation of (Richmond). 1890. p. 162.	A7.3:24

Classification no.

	Classification
Milk—Continued	1100
Fermentations and their relations to dairying. 1892	
Fermentations of (Conn). 1892	A10.3:9
Healthy and diseased cows, effects of tuberculin injections upon.	A 4 9.19
1896. p. 15 Inspection in Shanghai (Blackwood). p. 205	A4.3:13 A4.1:898
Market, plan for its improvement (Pearson). p. 158	A4.1:900
Nature of (Bechamp). 1890. p. 154.	A7.3:24
Pasteurization and sterilization of (De Schweinitz). 1894. p. 331.	A1.10:894
Pasteurization of—	
directions for	A4.4:1
for butter making. 1899. p. 23	A1.9:92
Pathogenic bacteria in milk and its products, vitality and reten-	
tion of virulence by certain (Dawson). p. 224	A4.1:898
Preservation of, by pressure (Lawson). 1899. p. 27	A1.9:105
Production—	
testing cows as to, some notes in connection with (Scovell).	A 10 0.05
1899. p. 123	A10.3:65
Qualities in, science of developing and perpetuating (Roberts).	A1.9:124
1882. p. 86	A1.8:22
Quality of—	A1.0.22
selling on basis of, how shall it be accomplished in retail trade	
(Georgeson). 1896. p. 93	A10.3:41
should selling be regulated by? (Voorhees). 1896. p. 91	A10.3:41
Raw, pasteurized, and cooked, digestibility of. 1902. p. 27	A1.9:149
Ropy cream and, examination as to cause of (Allen). 1899. p. 26.	
Solids and fat in, Babcock gravimetric method for determination	
of (drying with asbestos in perforated metal cylinder)	
(Winton). 1893. p. 119.	A7.3:38
Solids in, calculation of total from per cent of fat and specific	
gravity, according to formulas of Babcock, Fleischmann, and	
Hehner and Richmond, compared with gravimetric method	A 7 2.12
(Van Slyke). 1894. p. 193	A7 2.21
Souring of, and other changes in milk products. 1895	A1.9:29
Specific gravity of—	111.0.20
determination of rise in, on allowing milk to stand after milk-	
ing (Richmond). 1894. p. 191	A7.3:43
limits of (Schrodt). 1888. p. 154	A7.3:24
Sterilization or pasteurization of, directions for	
Test, standard, report on (Patrick). 1891. p. 123	A10.5:3
Testing cream and, modification of Babcock method and apparatus	
for (Bartlett). 1896. p. 104	A7.3:49
Transportation of. 1887. p. 386	A27.9:25
Tubercle bacilli in, experimental observations on presence of	A4.3:7
(Schroeder). 1894. p. 75.  Tuberculosis in, killing the germs of (Wilcox). 1899. p. 24	A4.5:7 A1.9:107
Tuberculous cows, tubercle bacilli in, some experimental obser-	A1.0.107
vations on. 1893. p. 60.	A4.3:3
Use and adulteration of. 1893. p. 57.	A7.3:41
Washington, not normal (Richardson). 1888. p. 24	A7.3:19
Water to, quantitative determination of addition of, and removal	
of cream therefrom (Herz). 1888. p. 168	A7.3:24
See also Foremilk — Skim milk.	
Milk flour in Sweden. p. 610	A4.1:901
Milking scrub cows. p. 491	A4.1:898
Millardet, Pierre Marie Alexis. Grapes, mildew and rot of grapes,	A C O.O
treatment of. 1885. p. 94	A6.3:2
Copper, search for, on vines treated with lime and sulphate of cop-	
per mixture, and in harvest. 1885. p. 116	A6.3:2
Grape mildew, treatment of, by mixture of sulphate of copper and	
lime. 1885. p. 108.	A6.3:2
Grape vine, mildew on, effects of, and influence of efficient treat-	-
ment. 1885. p. 97	A6.3:2

	Classification no
Miller, Gerrit Smith, jr.:  Bats, North American, of family Vespertilionidæ, revision of.	AE 5.10
1897 Shrews, long-tailed, of eastern United States. 1895. p. 35 Voles and lemmings, genera and subgenera of. 1896.	
Miller, H. K. Acid, normal, and alkali solutions, standardization of. 1894. p. 145	A7.3:43
reclamation of, by utilizing underlying waters. 1891. pt. 1. p. 301.  Miller, M. F. See, as joint author, Lapham, J. E.	A15.2:Ir72
Miller, Merritt Finley. Reaping machines, evolution of 1902 Miller, Wm. B. E. Pleuro-pneumonia in New Jersey, investigation	A10.3:103 A1.1:881-2
of. p. 45  See also, as joint author, McLean, L.  Miller, W. W. Ohio, farmers' institute work accomplished in.	
1902. p. 41  Millet disease of horses. 1898. p. 20  Same, p. 539	A10.3:120 A1.9:69 A4.1:898
Millets: Composition of other forage plants and. 1898. p. 655	A1.10:898
Insect injury to (Chittenden). 1988. p. 84 Report on (Williams). 1898. p. 267  same	A1.10:898 A1.9:101
Milliken, Robert. Cricket, western, outbreaks of, and of certain locusts in Idaho, report on. 1893. p. 17.  Milling, Hungarian, report on (Dewey). 1893. p. 38.  Milling companies, farmers'. 1890. p. 294.	A9.7:6 A27.9:31
Mills, James. Response to address of welcome, American Association of Farmers' Institute Workers, held at Buffalo, N. Y	A27.9:28
Sept. 18 and 19, 1901. 1902. p. 12	A10.3:110 A29.6:27
Milwaukee, Wis.:  Corn and wheat in, 1861-66. p. 431  Weather Bureau officials' convention, notes on (Abbe). 1901.	A27.9:4
pp. 25, 317  Mimosa bark or wattle bark, report on. p. 507  See also Wattle tree.	A29.6:29 A1.1:878
Mineral conditions and resources of U. S. (Newton). 1862	A1.8:1 A4.1:898
Mineral fertilizers. See Fertilizers.  Mineral food of plants. 1870. p. 40	A27.9:8
Mineral matter deposited with snow in northern Indiana, Jan. 8, 1892 (Goss). p. 20  Mineral nutrients, physiological rôle of (Loew)	A29.6:20 A28.3:18
Mineral phosphates: As fertilizers (Wiley). 1894. p. 177 Iron and alumina in, estimation of (Lehmann). 1897. p. 61	A7.3:51
Mineral production, British. 1873. p. 531	A1.1:888 A5.1:888
Minneola, Kansas, sorghum-sugar experiments at, 1889 (Wiley)  Minnesota:  Farm resources and products of. 1868. p. 198	
Flax culture in (Bosse). 1892. p. 43.  Flour, improved (Buck). p. 388.  Horticultural education in (Green). 1898. p. 84.	A11.5:4 A1.1:875
Isaria and attendant bachybasium, note on species in (MacMil-	
lan). 1891. p. 75.  Locusts, migratory in, in 1891 (Lugger). p. 18.  Mammals and birds of parts of, food habits and distribution of (Bailey). p. 426.  same. p. 426.	A1.1:887
same. p. 426.  Resources of, etc., brief history of (Kelly). p. 31	A5.1:887 A1.1:863

	Index Classification no.
Minnesota—Continued	
Road building in, State aid to (Choate). 1898	A22.4:32
1893 Southern, blackbirds and gophers in, depredations of, in fall of	A1.9:10
1887 (Fisher). p. 454	A1.1:887
same. p. 454	A5.1:887
1865. p. 12	A27.9:4
1869. p. 144	A27.9:7
1887. p. 631	A27.9:25
Winds and clouds in, movements of (Abbe). 1897. p. 252  See also Duluth — Hennepin County.	A29.6:25
Minnesota, University of, bread and bread making at, studies on, in 1897 and 1898 (Snyder). 1899. p. 7.	A10.3:67
Same. 1899 and 1900 (Snyder). 1901	A10.3:101
Minnesota good roads convention, St. Paul, proceedings of, Jan. 25,	A22.3:2
26, 1894	
Minnetonka, Lake, watershed, hydrology of (Cooley). 1899. p. 14.	A29.6:27
Minot, Charles Sedgwick, and Burgess, Edward. Aletia, anatomy	1120.0.27
of. 1885, p. 45	A8.1:4
Minto, John. See, as joint author, Heath, H. A. Mirage:	
Note on (Abbe). 1900. p. 17.	A29.6:28
Over Lake Michigan, notes on (Abbe). 1900. p. 544	A29.6:28
Mirobia and seiches, notes on (Abbe). 1898. p. 562	A29.6:26
Same (Abbe). 1899. p. 102	A29.6:27
Mississippi:	40000
Aletia in, in 1878 (Anderson). p. 352.	A9.2:C82
Boll worm in, observations on (Mullen). 1893. p. 240.	A9.7:5
Climate, soil, productions, and agricultural capabilities of (Hurt).  1884	A1.7:3
1884	A27.9:4
Cotton insects found in, notes on (Ashmead). 1894. pp. 25, 240,	
320	A9.7:7
Delta of, differential grasshopper in (Morgan). p. 7	A9.6:30
Entomological work of season in (Weed). 1891. p. 34	
Experiment station (Tracy). p. 378	A1.1:890
same, p. 378	
Farm resources and products of. 1868. p. 111	A21.8:0 A20 2:H04
Insects from, notes on (Weed). 1892. p. 110	
Stock raising in. 1869. p. 297 *	A27.9:7
Tea plant in. 1869. p. 301*	A27.9:7
Tornadoes in (Emery). 1900. p. 499	A29.6:28
same (Emery). 1902. p. 265	A29.6:30
Winter thunderstorms in, note on (Abbe). 1900. p. 18	A29.6:28
See also Yazoo.  Mississippi rapids, fruit culture on the (Gregg). 1869. p. 225	A27.9:7
Mississippi River:	1970.9
Canal from, to Lake Borgne. 1870. p. 357	A41.884
same (Bradley). p. 424	A4.1:885
same (Bradley). p. 424 same (Taylor). p. 306 Flood, Apr. 12, 1897 same, 2d report, Apr. 22, 1897 Flood and flood problems of (Frankenfield). 1899. p. 405	A4.1:887-8
Flood, Apr. 12, 1897	A1.5:2
same, 2d report, Apr. 22, 1897	A1.5:3
Flood and flood problems of (Frankenfield). 1899. p. 405	A29.6:27
Flood planes of (Ockerson), 1894, p. 81	A29.3:11
Floods of (Morrill). 1897. same (Morrill). 1897. p. 371.	A29.0:E
same with reference to inundation of alluvial valley (Star	A29.1:897
same, with reference to inundation of alluvial valley (Starling). 1894. p. 68  June rise of, note on (Abbe). 1900. p. 208.	A29.3:111
June rise of, note on (Abbe). 1900. p. 208	A29.6:28
Live-stock industry west of, condition of (Wilson). p. 429	A4.1:885
*By a misprint, this page number appears twice.	

\*By a misprint, this page number appears twice.

Index	Classification no.
Mississippi River—Continued	
River and flood service, charts of area covered by, in April, 1897	
Sheep industry west of, condition of (Heath). p. 247.	A4.1:889-90
Mississippi River and tributaries in periods of low water, importance of river-stage forecasts of (Smyth). 1902. p. 146	<b>4 90                                   </b>
Mississippi Valley:	A20.0.01
Bird migration in, in 1884 and 1885 (Cooke). 1888	A5.3:2
Chinch bug in, early occurrence of (Forbes). 1889. p. 249	A9.7:1
Droughts in (Abbe). 1895. p. 337	A29.6:23
Lower, anthrax in. p. 166	A4.1:897
Lower, anthrax in. p. 166	A1.1:869
Prairie ground squirrels or spermophiles of (Bailey). 1893	A5.3:4
Spermophiles and pocket gophers of (Bailey). p. 185	A1.1:892 A5 1:892
Upper—	
river gages in (Carlisle). 1902. p. 222	A29.3:31
weather conditions in, effect of low atmospheric pressure in	A 00 C.00
determining (Hazen). 1896. p. 89	A29.0:23
Bread and meat consumption in, data relating to (Gibson and	
others). 1896. Cattle in, outbreak of disease among (Michener). p. 387	A10.3:31
Cattle in, outbreak of disease among (Michener). p. 387	A4.1:889-90
Climate of, notes on (Hackett). 1899. p. 582	
Dairy industry in (Chubbuck). 1897.	A4.3:18
Farm resources and products of. 1868. p. 263	A27.9:6
Hailstorm in, severe (Hackett). 1898. p. 409	A29.6:26
Insects of. See Murtfeldt, Mary E.  Moving cattle from two northern tiers of counties in Arkansas	
i-4- Man 0 1000	A4.5:32
Northwest, grasshopper injuries in, report on trip to investigate	40 ==
(Osborn). 1893. p. 323. Road improvement in, extract from governor's message (Ste-	A9.7:5
phens). p. 5	A22,4:33
Southwest, drought of 1899 in. (Hazen.) p. 151	A29.6:28
Swine and fowl industry of, and annual loss by disease (Bradley).	
p. 418 Weather forecasts of (Frankenfield). 1895. p. 292	A4.1:880 A29 6:23
Winds in, hot (Abbe). 1897. p. 260.	A29.6:25
Winds in, hot (Abbe). 1897. p. 260.  See also Jefferson County — Kirkwood — Miami — St. Louis —	
Springfield.	
Missouri, University of, dietary studies at, in 1895 (Gibson and others).	A10.3:31
1896 Same, comments on (Atwater and Woods). p. 21	A10.3:31
Missouri Experiment Station, irrigation experiments at, 1901	
(Waters). 1902. p. 305	A10.3:119
June rise of, note on (Abbe), 1900, p. 208	A29.6:28
Water from, abstract of laws for acquiring titles to (Mead). 1899	A10.30:6
June rise of, note on (Abbe). 1900. p. 208.  Water from, abstract of laws for acquiring titles to (Mead). 1899.  Water rights on (Mead). 1899.  Mist, small whirling columns of (Marean). 1899. p. 409.	A10.3:58
Mitchell, Alexander J.:	A29,0;21
Climate and crop conditions, are changes in present forms for re-	
porting weekly advisable? 1899. p. 126	A29.3:24
Climatology of Florida with regard to crops. 1902. p. 208	A29.3:31
State weather services, their importance and equipment. 1896. p. 44	A29.3:18
Weather forecast stations, voluntary, their object and collateral	
functions, 1899, p. 140	A29.3:24
Mitchell, A. S. Extracts, flavoring, analysis of, provisional methods	A7.3:65
for. 1902. p. 69	A1.0.00
Clouds, cumulus, formed by smoke. 1901. p. 498	A29.6:29
Kite corps at Bayonne, N. J., records by. 1900. p. 539	A29.6:28
Meteological observations during burning of plant of Standard Oil Company at Bayonne, N. J., July 5, 6, and 7, 1900. p. 325	
company at any came, are one of on the control of the care as	

	Classification no.
Mite:	
Enemy of citrus trees (Marlatt). 1900. p. 247	A1.10:900
Six-spotted, of orange (Riley). 1890. p. 225	
Mlodziansky, A. K. Forest crop, measuring the. 1898	A13.3:20
Crop prospects of Europe. 1883. No. 61, p. 34; No. 64, p. 28;	
No. 65, p. 29; No. 1, p. 18	A27.9:21
European wheat prospect, Apr., 1883. No. 58, p. 31	A27.9:21
Grain producing districts of Russia. 1882. No. 51, p. 14	A27.9:20
India, wheat crop of, 1884-85. 1885. No. 21, p. 39	A27.9:23
Mohair and mohair manufactures (Thompson). 1901. p. 271	
Same, p. 480	
Mohair market. 1886. p. 555	
Mohler, John R. See, as joint author, Nörgaard, Victor Andreas.	
Mohn, Henrik. Norway, climate of. 1896. p. 647	A29.3:118
Mohr, Charles:	
Plant life in Alabama; prepared in cooperation with geological	
survey of Alabama. 1901	A6.5:6
Red cedar, notes on. 1901	
Timber pines of southern United States. 1896	A13.3:13
Woods, test material, field records of. 1893. p. 50.	A13.3:8
Moisture:	
Conditions, influence of, on process of germination (Detmer).	1
1895. p. 405	
Determination of experiments in (Anderson), 1890, p. 93	A7.3:28
Determination of, experiments in (Anderson). 1890. p. 93 Distribution of, in United States (Hazen). 1899. p. 327	A 29 1 · 898
Monthly notes on Feb 1895—Sept 1897	1 A 29 B
Some physical properties of soils in relation to (Whitney) 1892	A 20 3 .1
Monthly notes on, Feb., 1895—Sept., 1897.  Some physical properties of soils in relation to (Whitney). 1892.  Tables of, report on (Marvin). 1898. p. 205.	120.0.4
See also Atmospheric moisture — Soils.	1120.0.20
Mokrzhetski S Blood louse observations on cycle of sexual develop-	i
Mokrzhetski, S. Blood louse, observations on cycle of sexual development of, translated by P. Fireman. 1898. p. 78	A9.6:18
Molasses:	110.0.10
Adulteration of sirup and (Wiley and others). 1892. p. 633	A7.3:136
Cuba. 1870–71. p. 326	A27.9:9
Cuba, 1870-71. p. 326	A1.9:107
Imports of, 1856-61. No. 5, p. 4	A27.9:1
Imports of, 1856-61. No. 5, p. 4	A27.9:1
Table showing amount of, June, 1864. No. 3, p. 8	A27.9:2
Trade of United States, 1867–68. p. 16	A27.9:7
See also Sirup.	1
Mole cricket or changa in Porto Rico (Barrett). 1902	A10.12:2
Mollusks. See Clam — Limax campestris.	
Molossus, new species of, from California, description of (Merriam).	
1890. p. 31	A5.5:4
Molybdate method, determination of phosphoric acid by (Garri-	
gues). 1894. p. 105	A7.3:43
Molybdic solution, estimation of phosphoric acid in soils by double	
precipitation with (Williams). 1895. p. 82	' A7.3:47
Monaco, Prince of. See Albert, Prince of Monaco.	1
Monchamp, G. Barometer, history of, letter relative to, comments	
on. 1899. p. 547	A29.6:27
on. 1899. p. 547  Monephora bicinta damaging Bermuda grass, note on. 1886. p. 34.  Monocotyledons of western Texas, description of (Coulter). 1894.	<b>i</b> .
p. 421	A6.5:2
Monomorium pharaonis, observations on (Bellevoye). 1890. p. 230.	A9.7:2
Monostegia ignota, report on (Mally). 1890. p. 9	A9.7:3
Monostomulum lentis. See Trematodes.	
Monrad, John H. Dairy industry in Nebraska, South Dakota, and	
North Dakota. 1896	A4.3:16
Monroe, Josiah. Rainfall at Firmeza, Cuba, 1888-98. p. 252	A29.6:26
Monroe County, Iowa, agricultural statistics of. 1869. p. 301 *	A27.9:7
Monsoon rains:	100 000
Forecasting (Abbe). 1895. p. 213	A29.6:23
* Due misself this ness number appears twice	

index	Classification no.
Monsoon rains—Continued	
Nile floods and. 1900. p. 324.	A29.6:28
See also Indian monsoons.  Monsoon region Indian upper currents of air above (Dallas) 1896	•
Monsoon region, Indian, upper currents of air above (Dallas). 1896. p. 417  Montague, A. J. Good roads, how to secure. 1902. p. 36	A29.6:24
Montague, A. J. Good roads, how to secure. 1902. p. 36	A22.3:25
Agricultural notes on. 1866. p. 380.	A27.9:4
Agricultural resources of. 1865. No. 9. p. 27  Agricultural topography and resources of. p. 431	A27.9:3
Alkali in (Traphagen). 1900. p. 72.	A1.1:8/1 A10.3:76
Chinook in (Abbe), 1895, p. 426	A29.6:23
Cold spell of Nov., 1896, in (Hazen). p. 414	A29.6:24
Earthquakes in, notes on (Abbe). 1901. p. 175	A29.0:29 A28.5:5
Forest conditions of Rocky Mountains in (Ensign). p. 41	A13.3:2
Fungi of, common, brief notes on few (Anderson). 1889. p. 30.	A28.5:5
Irrigation in, in 1890 (Nimmo). p. 149	A15.2:P94
1900. p. 267 1901. p. 225	A10.3:104
1901. p. 225	A10.3:119
Kites in (Coe). 1896. p. 237	
same, p. 311	A6.1:888
same, p. 311  Plant poisoning of stock in (Wilcox). p. 91.	A4.1:900
Plant poisoning of stock in (Wilcox). p. 91	A6.3:26
Temperature changes in, sudden, note on (Abbe). 1900. pp.	
Water supply of, for season of 1900, as depending on snowfall	A29.6:28
(Glass), p. 495	A29.6:28
See also Gallatin Valley — Havre — Helena — Whitney, Milton,	
and Means, Thos. H. Monterey County, Cal. See Salinas Valley.	
Montevideo, wool exports from, in 1901. p. 607	A4.1:901
Montgomery County, Maryland, Agricultural Society, address before	107.0.070
(Capron). 1870. p. 351 Montgomery County, Ohio, soil survey of (Dorsey and Coffey). p. 85	A27.9:870
~~	A26.5:900 <sup>1</sup>
Montgomery County, Tennessee, soil survey of (Lapham and Miller). p. 341	A26.5:901 <sup>1</sup>
Monthly crop synopsis, Statistics Division, Agriculture Department	
Monthly list of publications of Agriculture Department	A21.6:
Monthly Weather Review, French edition of, note on (Abbe). 1900. p. 291	A29.6:28
Monthly Weather Review, Weather Bureau	A29.6:
Montlaur, Amaury, Vicomte de. Polysulphides, alkaline, use of, for grape mildew. 1885. p. 67.	A & Q . 9
Moon:	<b>AU.</b> 3.2
Aurora and, report on (Hazen). 1898. p. 108	A29.6:26
Effect of, on vegetation, notes on (Kimball). 1901. p. 215	1 A29.6:29 A29.6:26
Weather and, note on relation of—	<u> </u>
1898 (Abbe). p. 569	A29.6:26 A29.6:29
1901 (Abbe). pp. 121, 374 1901 (Meech). p. 372	A29.6:29
Mooney, Charles N., and Caine Thomas N., Soil survey of Prince	
Edward area, Virginia. p. 259  Mooney, Charles N., Martin, F. O., and Caine, Thomas A. Soil survey of Redford area. Virginia. p. 220	A26.5:901 1
vey of Bedford area, Virginia. p. 239	A26.5:901 1
vey of Bedford area, Virginia. p. 239.  Moonshine and frosts, notes on (Abbe). 1898. pp. 115, 261	A29.6:26
Moore, C. C. Plant food, available, plan for cooperating in study of.	174.0
Moore, J. A. Lumpy jaw, successful treatment of. p. 510	A4.1:899
Moore, Veranus Alva: Animal diseases; morphology, biology, and pathogenic properties	ł
of 28 streptococci found in investigation of. 1893. p. 9	A4.3:3

	Classification no.
Moore, Veranus Alva—Continued	
Animals, domesticated, upper air passages of, pathogenic and toxicogenic bacteria in. 1893. p. 38	A4.3:3
Cattle, disease in, not distinguishable from rabies. 1896. p. 10	A4.3:10
Cornstalk disease of cattle, nature, cause, and means of prevent-	
ing, investigation into. 1896. p. 9.	A4.3:10
Fowl cholera, bacillus obtained from three outbreaks of, study of. 1895. p. 63	A4.3:8
Fowls, diphtheria in, preliminary investigation of. 1895. p. 39.	A4.3:8
Hog cholera, can bacillus of, be increased in virulence by passing	1100
it through a series of rabbits? 1894. p. 97	A4.3:6
jected in small numbers into subcutaneous tissue of pigs.	
1894. p. 103	A4.3:6
Leukæmia, infectious, in fowls, a bacterial disease frequently	A A 1.005 G
mistaken for fowl cholera. p. 185	A4.1:895–6
nary investigations concerning. p. 261	A4.1:895-6
Milk separators, inefficiency of, in removing bacteria. 1895.	411000
p. 431 Nodular tæniasis in fowls. 1895	A1.10:895 A4.4:3
Pig, lung and spleen of, nonmotile pathogenic bacillus closely	AT.T.O
resembling bacillus of hog cholera found in. 1893. p. 31	A4.3:3
Pigeons, fatal disease of, pathogenic bacillus of hog-cholera group	A 1 2.0
associated with. 1895. p. 71 Swine, nonspecific disease among, outbreak of. p. 219	<b>A4.3:8</b> A4.1:895-6
Turkeys, infectious entrohepatitis in, direct transmission of.	
1896	A4.4:5
See also, as joint author, Smith, Theobald.  Moore, Veranus Alva, and Dawson, Charles Francis. Tuberculosis	
in swine; nature of disease, with report of three cases. p. 207.	A4.1:895-6
Moore, Veranus Alva, and Fish, Pierre Augustine. Rabies in Wash-	1 1 205 2
ington, D. C. p. 267	A4.1:895-6
Address of—	
at international good roads congress, held at Buffalo, N. Y.,	
Sept. 16–21, 1901. p. 5before Jefferson memorial and interstate good roads conven-	A22.3:21
tion. Apr., 1902. p. 21	A22.3:25
tion, Apr., 1902. p. 21 Good roads and material progress. 1902. p. 26	A22.3:23
Road subject, social, commercial, and economic phases of. 1900.	A22.4:34
What is our duty? Address before international good roads congress, Buffalo, N. Y., Sept. 21, 1901. p. 82	A22.3:21
Moore, Willis Luther: •	!
Address before convention of Weather Bureau officials, Omaha,	1 100 0-04
Nebr., Oct. 13, 1898. p. 9	A29.3:24 A29.2:Al1
Arid regions, some climatic features of, communicated to national	1120.2.111
irrigation congress. 1896	A29.2:Ar4
Atmospheric survey, United States daily. 1897	
North Pacific coast weather map, explanation of	
President's address before second convention of Weather Bureau	
officials, Milwaukee, Wis., Aug. 27–29, 1901. p. 16	A29.3:31
Weather Bureau, Agriculture Department— new work in. 1898. p. 81	A1.10:898
report of. 1901. p. 595	A29.6:29
work of, for farmer. 1897. p. 59.	A1.10:897
Weather forecasting; some facts, historical, practical, and theoretical. 1899.	
Weather map, explanation of	A29.2:W376
West Indian hurricane service. 1899. p. 56	A29.3:24
See also, for reports as Chief, Weather Bureau, Agriculture Department, 1895–1902	A29.1
Moorhead, J. K., Warder, Jno. A., and Jackson, Chas. Report of	
Flax and Hemp Commission. 1865	A1.2:F76

Morachevski, V. Russian zyemstvos, conflict of, with enemies of	
Morachevaki, v. ituatian Zyemstvoe, connect of, with enemies of	10.000
agriculture; abstract by P. Fireman. 1902. p. 61	A9.6:38 A9.7:1
Morgan, H. A.:	
Artace punctistriga, some observations upon. 1901. p. 182	A10.3:99
species. p. 7. 1901	A9.6:30
species. p. 7. 1901 Mosquito, conchyliastes musicus, observations upon. 1902. p. 113.	A9.6:37
Oil emulsions, simple device for preparation of. 1896. p. 93 A Sugar-cane borer, life history of, in Louisiana. 1902. p. 128 A	49.6:6 410 9:115
Morocco, agriculture of (Collins). p. 499	A1.1:862
Morocco, agriculture of (Collins). p. 499.  Morrell, Robert. Sheep, Hampshire Down, note on. 1868. p. 462.	A27.9:868
Morrill, Justin Smith:  Legislative career of (Atherton). 1901. p. 60	A 10.3:99
Resolutions of respect for, proposed for adoption of Association	
of American Agricultural Colleges and Experiment Stations,	N 10 9.70
at 13th annual convention (Buckham). 1900. p. 30 A Morrill, Park:	A10.3:70
Areas, high and low. 1895. p. 157	<b>A29.6:23</b>
Barometric pressure, reduction of, to sea level. 1896. p. 492	
Daily stages of principal rivers of United States. Pt. 5, 1893–95 A Floods of Mississippi River, report on. 1897	A29.5:E
same. p. 371	A29.1:897
Meteorological records, hourly, at Pikes Peak and Colorado	
Springs from November, 1892, to September, 1894, brief discussion of. 1896. p. 215	A29.1:896
River and flood service, monthly notes on, Nov., 1896-May, 1898.	A29.6:24
Temperature and pressure, reduction of. 1897. p. 572	A29.6:25
Weather forecasts and storm warnings, notes on, May, 1898. p. 195	A 29.6:26
Morrill, Park:	100 000
Published works of (Abbe). 1898. p. 356	A 29.6:26 A 29.6:26
Morris, Francis. Cavalry horses in America. p. 159	A1.1:863
Morris, John G. Ailanthus silk-worm of China, additional obser-	A 1 .000
vations on. p. 390	A1.1:862
Piggery, model, plan of. p. 476 White Chester breed of swine. p. 475	A1.1:865
Morrisville, Va., sorghum-sugar experiments at, 1889 (Wiley). p.	A1.1:865
	A7.3:26
	A7.3:26
Morrow, George E.:  Address as acting president of Association of American Agricul-	
tural Colleges and Experiment Stations, at 8th annual con-	
• • • • • • • • • • • • • • • • • • •	A10.3:24 A10.5:3
Agricultural experimental work, relation of teaching to. 1891.	A10.0.5
p. 67	A10.3:7
Animal husbandry in central West. 1882. p. 62	A1.8:22 A1.7:2
Butter, composition of, from Chicago dairy show, December,	
1889. p. 188	A7.1:889
companying exhibit of Animal Industry Bureau, at Paris	
companying exhibit of Animal Industry Bureau, at Paris Exposition of 1889. p. 405.	A4.1:887 <b>–8</b>
Chicago, Ill., World's Agricultural Congress, report of committee on. 1893. p. 104	A10.3:16
	A1.7:7
Morse, Fred W. Phosphoric acid, insoluble, paper on. 1891. p.	1 7 O O1
	A7.3:31 A27.9:5
Morse, H. N., and Burton, W. M. Butter, oleomargarine, etc., anal-	
ysis of, method for. 1890. p. 99.  Mortgage, a burden upon agriculture. 1886. p. 189.	A7.3:24
Mortgage, a burden upon agriculture. 1886. p. 189	A27.9:24
Address before Association of American Agricultural Colleges	A
and Experiment Stations. 1895. p. 47	A1U.3:24

	Classification no.
Morton, Julius Sterling—Continued	
Arbor Day; its origin and growth. 1887. p. 22	A1.8:56
Marie disease of tabases (Woods) 1902	A1.1 A10 2.18
Mosaic disease of tobacco (Woods). 1902	
36	A22.3:23
Moses, Z. Teasel, cultivation and use of. p. 117	
Möslinger, Dr. Milk, diphenylamine reaction in examination of,	
significance of. 1889. p. 168	A7.3:24
Mosquito:	AO 0.97
Conchyliastes musicus, observations on (Morgan). 1902. p. 113. Experiment against (Howard)—	A8.0:31
1892. p. 12	A9.7:5
1892. p. 12	A9.7:6
How to distinguish different, of North America (Howard)	A9.5:40
North American, synoptic tables of (Coquillett). 1900. p. 4	A9.5:40
Notes on (Howard). 1898. p. 55	A9.6:17
Report on (Howard). 1896. p. 9	A9.0:4
Structure and biology, notes on, with remarks on remedies	
(Howard) 1900	A9.8:25
Mosquitoes and fleas, circular relative to (Howard)	A9.5:13
Moss, Irish, curing of, brief account of (Bates). p. 423	A1.1:866
Mosses from Fuegia and Patagonia, collected by U. S. S. Albatross	
in 1887-91, list of (Eaton). 1892. p. 138	A6.5:1
Moths:	AQ 7.5
Ægeriidæ of central Ohio, notes on (Kellicott). 1892. p. 81 Fruit seriously injured by (Mally). 1902. p. 90	A9.7:0 A9.8:31
See also Angoumois grain moth — Bombycidee — Brown-tail	110.0.01
moth — Cabbage moth — Calothysanis amaturaria — Clothes	
moths — Commelina owlet moth — Drasteria erechtea — Endi-	
opta owlet moth — Ephestia interpunctella — Geometrid	
moth — Gipsy moth — Grain moth—Hepialus argenteomac-	
ulatus — Herbarium pest — Leopard moth — Lepidoptera—	
Lepidopterous larvæ — Mediterranean flour moth — Noctuidæ — Oncocnemis — Orgyia leucostigma — Osage orange pyra-	
lid — Peach-tree borer — Porthetria dispar — Potato-tuber	
moth — Privet web-worm — Protoparce carolina — Pyralid —	
Pyralidæ—Pyralidina—Spilosoma fuliginosa—Sphingidæ—	
Squash borer—Sugar cane borer—Theophila mandarina—	
Tussock moth—Wood-leopard moth.	111.071
Moule's earth-closet system, report on. p. 465	A1.1:8/1
Mount, James A. Indiana, road improvement in, extract from governor's message. p. 3.	A 22 4:33
Mount. See name of mountain.	1122.1.00
Mountain peaks, minimum temperatures on (Abbe). 1899. p. 421.	A29.6:27
Mountain roads. See Roads.	4.00.0.00
Mountain shadow, photograph of, note on (Abbe). 1894. p. 510	A29.6:22
Mountain slopes, precipitation on, theory of formation of (Pockels). 1901. pp. 152, 306.	A 29 6 29
Mountain stations, study of upper atmosphere from observations on	
Mountain stations, study of upper atmosphere from observations on (Hann). 1896. p. 754	A29.3:11 <sup>8</sup>
Mountain storms, peculiar, notes on (Abbe). 1898. p. 66	A29.6:26
Mountains:	1 00 4 00
Effect of, on wind (Abbe). 1894. p. 510	A 20.0:22 A 20.8:20
Relation of rainfall to (Alexander). 1901. p. 6	A28.0.28
Mouse. See Evotomys — Grasshopper mouse — Jumping mice —	
Pocket mice.	
Mouth disease of cattle. See Foot-and-mouth disease of cattle.	
Mouton flandrin sheep, Texel sheep or, report on (Chenery). p. 242.	A1.1:864
Muck or peat, value of. 1901. p. 5	A1.9:149
See also Soils.  Mucronoporus, report on (Ellis and Everhart). 1889. p. 90	A28 5.5
Same new (Ellis and Galloway). 1889. n. 141	A28.5:5
Same, new (Ellis and Galloway). 1889. p. 141.  Mucronoporus Andersoni, report on (Ellis and Everhart). 1891. p. 79.	
p. 79	A28.5:6

	Classification no.
Mud, rains of, notes on (Abbe). 1899. p. 158	A29.6:27
Mueller, Charles. Cattle, Dutch or Holstein. 1873. p. 175	A27.9:11
Muhlenberg, H. Grasses of herbarium of (Scribner and Merrill).	
1900	A3.4:27
Mulberries, birds which feed on (Merriam). p. 285	A1.1:890
Same, p. 285	A5.1:890
Mulberry silkworm, report on (Riley)	A9.3:9
See also Silkworm.  Mulder, Emile. Tobacco, cultivation of, in Sumatra. 1898	A1 Q.5Q
Mules:	A1.0.00
Diseases of, correspondence relating to. 1898. p. 537	A4.1:1898
Glanders among, in Texas (Folsetter). p. 393.	
· · · · · · · · · · · · · · · · · · ·	A1.1:863
Uses, how to breed, grow, prepare for market, and sell (Jones).	
	A4.1:891-2
See also Farm animals.	
Mull, George. Arbor Day, value and uses of. p. 29.	A1.8:56
Mullen, S. B. Boll worm, observations on, in Mississippi. 1893.	107.5
p. 240	A9.7:5
at (Steiner). p. 9	A22.4:27
Munich, international conference of meteorologists, Aug., 1891, re-	A22.7.21
port of (Abbe). p. 626	A1.1:891
Same, p. 626.	A29.1:891 <sup>2</sup>
Munich, meteorological congress, 1892; international weather sym-	
bols recommended for use (Harrington)	A29.2:In8
Munroe, Ralph M. Pineapple fiber, results of recent investigations	
relating to 1893. p. 46	A11.5:5
Munson, L. S. Canned vegetables, analysis of, provisional method	1 = 0 0 =
for. 1902. p. 50	A7.3:65
See also, as collaborator, Bigelow, Willard Dell.	
Munson, L. S., and Tolman, L. M.:	
Fruits and fruit products— analysis of, provisional method for. 1902. p. 74	A 7 3 85
chemical examination of. 1902. p. 9	A7.3:66
Munson, T. V.:	11110100
Grape-vine, downy mildew and black-rot of, treatment of, with	
salts of copper at Denison, Texas, in 1887. p. 23	A6.3:5
Grapes, wild, of North America, classification and generic syn-	
opsis of. 1890	A20.3:3
Muntz, A. Grape mildew, treatment of, by sulphate of copper.	A 42 O - O
1886. p. 92	A6.3:2
Murdoch, L. H.: Precipitation, cycles of. 1902. p. 482	A29.6:30
Utah, water supply of, for season of 1900, as depending on snow-	A20.0.00
fall. p. 497.	A29.6:28
Water level of Great Salt Lake, relation of, to precipitation. 1901.	
p. 22	A29.6:29
Muriate of potash. See Potash.	
Murkland, Charles S. Engineering experiment stations, report of	
committee on, before convention of American agricultural col-	11000
leges and experiment stations. 1898. p. 32	A10.3:65
Same. 1900. p. 40 Murphy, Charles J. Maize, introduction of, into Europe. 1891.	A10.3:99
p. 5	A1.8:49
Murphy, J. McLeod. Ixtle fiber, letter on. 1869. p. 232	
Same, 1870. p. 354	A27.9:8
Murray, A. J.:	
Cattle—	
digestive organs of, diseases of. p. 15 medicines to, administration of. p. 9	A4.2:C29 <sup>2</sup>
medicines to, administration of. p. 9	A4.2:C29 <sup>2</sup>
Murray, Charles B. Remarks of, at 2d convention of Weather Bureau officials, Milwaukee, Wis. 1901. p. 224	A 000 00 00
reau omciais, Milwaukee, Wis. 1901. p. 224	A29.3:31
Murtfeldt, Mary E.: Acorn insects, primary and secondary. 1894. p. 318	AQ 7-A
Cheese or meet skinner 1893 n 170	A9.7-A
Cheese or meat skipper. 1893. p. 170	A9.6:31
and appears, and a second and a second and a second as	

	( IESETHCERTION M
Murtfeldt, Mary E.—Continued	
Entomological memoranda for 1893. 1894. p. 257	A9.7:6
Grape bags, use of, by paper-making wasp. 1891. p. 192	A9.7:4
Graptodera foliacea, life-history of. 1888. p. 74	A9.7:1
Missouri, injurious insects for season—	2201112
1886. p. 59	AQ Q-12
1888. p. 133	A 1 1.999
same, p. 133	
1889. p. 73	
1890. p. 45	
1891. p. 36	
1892. p. 49	
1893. p. 37	A9.3:32
Osage orange pyralid, report of. 1893. p. 155	A9.7:5
Pyrethrum, experiments with, at Kirkwood, Mo. p. 85	.A1.1:881-2
Same, p. 85	A9.1:882
Screw worm, hominivorous habits of, in St. Louis. 1891. p. 200.	A9.7:4
Stibadium spumosum, habits of. 1894. p. 301	A9.7:6
Tineid, interesting, report on. 1890. p. 303	A9 7·2
Tree crickets, carnivorous habits of. 1889. p. 130	AQ 7.9
Muscatel raisins, production of, in Malaga (Mark). 1875. p. 319.	A27.9:13
	A21.5.10
Muscular energy, source of, metabolism of nutrients in animal body	A 10 0.7
and (Zuntz). 1897. p. 538	A10.6:7
Muscular work:	
Experiments on effect of, upon digestibility of food and metabo-	
lism of nitrogen, conducted at University of Tennessee, 1897-	
99 (Wait). 1901.  Experiments on effect of, upon digestibility of food and metabo-	A10.3:89
Experiments on effect of, upon digestibility of food and metabo-	
lism of nitrogen (Wait). 1902	A10.3:117
Severe and prolonged, effect of, on food consumption, digestion,	
and metabolism (Atwater and Sherman). 1901	A10.3:98
Mushrooms:	
As food. 1898. p. 18	A1.9:79
Beds for, directions for preparing and spawning of (Falconer).	111.0.10
p. 17	A18.5:1
Edible and poisonous, reference list of publications relating to	A10.0.1
	A 17 9.00
(Clark). 1898.	A17.3:20
Eight edible and twelve poisonous, of United States, with direc-	
tions for culture and culinary preparation of edible species	
(Taylor). p. 366	A1.1:890
same, revised	$\mathbf{A} \mathbf{18.5:2}$
Enemies of, and experiments with remedies, notes on (Busck).	
1902. p. 32	A9.6:38
Four edible, of United States (Taylor). 1893. p. 7	A18.5:3
How to grow (Falconer). 1897.	A1.9:53
Poisoning by, in District of Columbia, recent cases of (Coville)	A6.4:13 <sup>1</sup>
Review of industry (Falconer). 1894. p. 20.	A 18.5:1 <sup>2</sup>
Twelve edible, of United States, with directions for identification	11101011
and preparation as food (Taylor). p. 100	11 1-885
same, reprinted with an appendix	
	A10.0.1
See also Agarics — Agaricus campestris — Fungi.	A 4 1 .001
Musk ox (Thompson). p. 507	A4.1:901
Muskinelons:	10017
Fertilization of, by insects, notes on (Rane). 1898. p. 75	
Transplanting, experiments in (Smith). 1900. p. 20	A1.9:119
Transplanting and manuring. 1902. p. 15	A1.9:149
Mustard:	
Tumbling, circular on (Dewey)	A6.4:71
White and black, contribution to investigation of assimilation of	
free atmospheric nitrogen by (Lotsy). 1894	A10.3:18
free atmospheric nitrogen by (Lotsy). 1894	A6.4:10
Mustela caurina. See Marten.	, <u></u>
Mutton:	
	A4.1:898
Feeding for, in South Dakota (Chilcott and Burnett). p. 471 Raising sheep for (Curtiss). 1899	A 1 9-98
See also Sheep.	AA A. U .UU
see also sheep.	

	Classification no.
Mycological literature, North American, index to (Fairchild). 1891.	
pp. 42, 80, 128, 184. Same, continued (Fairchild). p. 52.	A28.5:6
Mycological notes, report on (Massee). 1889. p. 184.	A28.5:7
Same (Massee). 1891. p. 178.	A28.5:6
Same (Massee). 1891. p. 178	A1.1:886
relation to plant diseases.  Mycophagy, importance of, in a course of botanical instruction	A28.5
(Starnes). 1898. p. 75.  Myers, E. W. See, as joint author, Pressey, H. A.	A10.3:49
Myers, John A:  Address of, as president of Association of Official Agricultural	
Chemists, at sixth annual convention. 1889. p. 8.  Agricultural experiments stations, organization and methods.	A7.3:24
1889. p. 99	A10.5:1
1889. p. 99  Biographical sketch of. 1902. p. 72.	A7.3:67
Drief reconections of (Simm). 1802. D. 07	A(.3:0)
Memorial exercises in honor of. 1902. p. 65.	A7.3:67
Resolutions adopted by Association of Official Agricultural Chemists in commemoration of. 1902. p. 74	A7.3:67
	A29.6:26
Meteorology of Yukon, report on. 1899. p. 100	A29.6:27
Yukon weather, report on. 1901. p. 309.	A29.6:29
Myrick, Herbert. New England, associated dairying in, report accompanying exhibit of Animal Industry Bureau at Paris	
exposition of 1889. p. 375.	A4.1:887-8
Myriopods, phosphorescent, report on. 1891. p. 319	
Mytilaspis pomorum, new parasite of (Howard). 1894. p. 256	
Nagle, J. C.:	A4.1.001
Engineering courses, some objections to early differentiation of. 1900. p. 106	A10.3:76
Silt measurements, progress report on—	A10.3:104
1891. p. 293 1902. p. 365	A10.3:119
Nall, I. B. Kentucky Farmers' Institute, work accomplished in. 1902. p. 23	A10.3:120
Napa County, California, wine industry of (Husman). 1891. p. 535. Napthaline, as an insecticide, etc., its effect on seeds, plants, and	A27.9:29
animals (Taylor). 1883.	A18.2:N16
Nash, George V. American ginseng, its commercial history, protec-	A 0 0 101
tion, and cultivation	A6.3:16 <sup>1</sup> A6.3:16 <sup>2</sup>
National Bureau of Standards, circular of information relating to	110.0.10
(Marvin). 1902. p. 135	A29.6:30
National herbarium, contributions from	A6.5:
National League for Good Roads. See Roads, good, national league for. National road conference. See Asbury Park, N. J.	
National road parliament. See Road parliament.	
Natural history:	
Queen Charlotte Islands, British Columbia, and Cook inlet region,	
Alaska (Osgood). 1901. Scientific notes on. 1870. pp. 155, 438	A5.5:21
Tree Maries Islands Maries 1900	A27.9:8 A5.5:14
Tres Marias Islands, Mexico. 1899	A0.0:14
Naval engineering, bill to establish and maintain courses in, report	
of committee of Association of American Agricultural Colleges	
and Experiment Stations on. 1896. p. 33  Naval-store industry. 1896. p. 67	A10.3:41
Naval-store industry. 1896. p. 67	A13.3:13 <sup>1</sup>
Same, with additional note of Aug. 5, 1896. p. 67	A10.0:15"
Inland, monthly notes on, July, 1891-Oct., 1896	
Work of meteorologist for benefit of (Bigelow). 1899. p. 71	
Navigator, marine nephoscope and its usefulness to (Abbe). 1894. p. 161	A29.3:113
*	<del></del>

	Ciassification no
Neal, J. C.:	•
Cotton and orange insects, report of observations and experi-	
ments. 1883. p. 31	A9.3:1
Root-knot disease of peach, orange, and other plants in Florida,	A O. O. OO
due to work of anguillula. 1889	A9.3:20
Vegetation, insects destructive to, general observations on. 1883.	A29.6:22
p. 35	A9.3:1
Neale, Arthur T.:	210.0.1
Anthrax in Delaware, combating. p. 190	A4.1:897
Cerebro-spinal meningitis in horses. p. 470	A4.1:899
Sorghum analysis at Rio Grande, N. J., in 1888. p. 43	A7.3:20
Nealley, G. C.:	
Collection of plants made by, in the region of Rio Grande, Texas,	
from Brazos Santiago to El Paso County (Coulter). 1890.	A O E .1
p. 29 Forage plants of western Texas, investigation of. 1888. p. 30	A6.5:1 A6.3:6
Neat cattle. See Cattle.	A0.5.0
Nebraska:	
Agriculture in. 1869. p. 140	A27.9:7
Cimbex, American adults of, injuring willow and cottonwood in	
(Webster). 1890. p. 228	A9.7:2
Dairy industry in (Monrad). 1896	A4.3:16
Departures from normal temperature and rainfall, with crop yields	
in (Dunwoody). 1896	
Farm resources and products of. 1868. p. 207	
Grasses and forage plants of, notes on (Pammel). 1897	A3.3:9
Insect injuries in—	A0.5:1
1884. (Bruner). p. 398	A1.1:884
1887. p. 164	
same. p. 33	
1888. p. 139	A1.1:888
same, p. 139	A9.1:888
1889. p. 95	
1890. p. 9	A9.3:23
1891. p. 9	A9.3:26
1892. p. 34	
1893. p. 9 Live-stock industry of, condition of (Harwi). p. 382	A4.1:889-90
Maladie du coit among horses in—	114.1.000-00
extirpation of (Nörgaard). p. 62	A4.1:893-4
second outbreak of (Faville and Day). p. 134	A4.1:899
supposed (Faville). p. 359	A4.1:891-2
Precipitation (rain and melted snow) at stations in, details of.	
1894	A29.2:P91 <sup>1</sup>
Rabies in, alleged, investigation of (Gibbs). p. 188.	A4.1:897
Sand hills of, flora of (Rydberg). 1895. p. 133	A6.5:3 A4.1:901
Sheep feeding in. p. 604	
Swine plague in, investigation of. p. 434	A4.1:885
Timber resources of (Hall). 1901. p. 207	A1.10:901
Underflow and sheet waters, irrigable lands, and geological	•
structure of, with its effect upon water supply (Hicks). 1893.	
pt. 3, p. 167 Water in, duty of (Stout). 1900. p. 149	A15.2:Ir7
Water in, duty of (Stout). 1900. p. 149	A10.3:86
Water laws of (Wilson). 1899. p. 58	A10.5:08
benefits of Weather Bureau to (Piercy). 1899. p. 144	A 20 2.24
pocket gopher of genus Geomys from, description of (Mer-	1140.U.47
riam). 1890. p. 51	A5.5:4
riam). 1890. p. 51 Wheat in. 1867. p. 366	A27.9:5
See also Casa County — Great Fastern Canal — Schuyler	
Necrophagous diptera, notes on species of (Webster). 1890. p. 356.	A9.7:2
Nectar, what it is, and some of its uses (Trelease). p. 319	A9.2:C82
Nectarophora destructor. See Green-pea louse.  Needham, Daniel. Agricultural exhibition at Hamburg. p. 19	A 1 1 000
wounam, Daniel. Agricultural exhibition at Hamburg. p. 19	A1.1:863

Neely, Samuel T. Traction tests on public roads. 1896	Classification no. A 22.3:20
Negroes: Dietary studies among, in eastern Virginia, 1897 (Frissell). p. 7.	
same. 1898 (Bevier). p. 27 Food of, in Alabama in 1895 and 1896, dietary studies with refer-	A10.3:70
ence to (Atwater and Woods)	A10.3:38
1898	A3.3:13
Mexican grasses collected by, in Mexico, 1894-95 (Scribner and Smith). 1897. p. 11	A3.3:4
Tres Marias Islands, Mexico— bibliography of, partial. 1899. p. 93	
birds of. 1899. p. 21 description of. 1899. p. 7 mammals of. 1899. p. 15.	A5.5:14 A5.5:14
See also, as collector, Coulter, John M., and Rose, Joseph Nelson. Nelson, S. B.:	110.0.11
Horse industry of the Northwest. 1900. p. 23	A1.9:117 A4.3:22
same, p. 421  Nematinæ of North America, a subfamily of leaf-feeding hymenop-	A4.1:898
tera of family Tenthredinidæ, revision of (Marlatt). 1896 Nematode leaf disease, note on (Atkinson). 1891. p. 31	
Nematoid worm. See Anguillula aceti — Aphelenchus olesistus. Neosho, Mo. See Jaeger, Hermann. Nephoscope, improved, report on (Marvin). 1896. p. 9	A29.6:24
See also Marine nephoscope.  Nervisequum. See Gleeosporium nervisequum.	A20.0.24
Nervous system: Diseases of—	
of cattle (Harbaugh). p. 111	A4.2:C29 * A4.2:H78
Nesbit, D. M.: Sweet potatoes	A1.9:129
Tide marshes of U. S. 1885	A7.3:26
Nessler, J. Grape mildew, copper soda and copper gypsum as remedies for. 1891. p. 73.	
Nest box for keeping individual egg record (Langworthy). 1900. p. 19	A1.9:114
Netherlands: Agricultural statistics of. 1886. p. 406	A27.9:24
Agriculture in. 1869. p. 387	A27.9:7 A27.9:24
Climate of (Snellen). 1896. p. 627  History of high farming as illustrated in (Tilden). p. 527  Markets for American products in 1895	A1.1:866
Markets for American products in. 1895	A27.9:7
See also Amsterdam — Arnheim. Nettle:	1121.0.22
Cultivation of, in Germany (Stanton). p. 560	A1.1:878
Question of, and its future. p. 561  Nettleton, Edwin S.:	A1.1:878
Artesian and underflow investigation between ninety-seventh degree of west longitude and foothills of Rocky Mountains.	A15.2:P94 2
Artesian and underflow investigation, final report of. 1893. Pt. 2.  Artesian wells investigation, field work in. 1890. p. 31	
Reservoir system of Cache la Poudre Valley, report on. 1901 Neumann-Spallert, F. X. von:	A10.3.92
Cereal crops of Austro-Hungary, value of. 1883. No. 64. p. 66. Grain, commerce in, 1879-81. No. 14. p. 35	

	Classification no
Nevada:	
Artesian water in (Irish). 1891. p. 199.	A15.2:P941
Cattle industry of (McNeely). p. 377	A4.1:898
Dry norther in (Abbe). 1895. p. 173	A29.6:23
Farm resources and products of. 1868. p. 271	<b>A27.9:6</b>
Fishes of Death Valley expedition, 1891, collected in, report on,	
with descriptions of new species (Gilbert). 1893. p. 229	
Grasses of arid districts of, investigation of (Tracy). 1888. p. 5.	
Irrigation investigations in (Wilson). 1902. p. 147	
Land and fresh-water shells collected in, by Death Valley expe-	
dition (Stearns). 1893. p. 269	A5.5:7
	A20.1:895
Southern—	
birds observed in, by Death Valley expedition of 1891, notes	
on (Fisher). 1893. p. 7	A5.5:7
cactuses, yuccas, and agave in deserts and desert ranges of,	
geographic and vertical distribution of (Merriam). 1893.	A E E . T
p. 345	A5.5:7
trees and shrubs in deserts and desert ranges of, distribution	1555
of (Merriam). 1893. p. 285.	A0.0:7
Stratigraphy and hydrology of (Hicks). 1890. p. 71	A15.Z:A77
See also Carson City — Humboldt County — Nye County — Win-	
nemucca.	
New Brunswick:	A 00 0.00
Earthquakes in, notes on (Abbe). 1898. p. 266.	
Thunderstorms in, 1897 (Kain). p. 105	A29.0:20
Tidal lands and diked marshes of (Boardman). 1885. p. 33	A1.1:1
Whirlwinds in, notes on local (Kain). 1900. p. 488	AZ6.0:28
New England:	A A 1.007 O
Associated dairying in (Myrick). p. 375	A28.3:25
Conifers of, some diseases of (Schrenk). 1900	A28.5:20
Farming in—	A 1 1.074
does it pay? p. 187report on. p. 255	A1.1:870
Land birds of, oology of some, as a means of identifying injurious	A1.1.070
or beneficial species (Samuels). p. 386	A1.1:864
Mammalogy and ornithology of, with reference to agricultural	A1.1.004
economy (Samuels). p. 265	A1.1:863
Northern, evergreen and other forest trees in, destruction of,	111.1.000
causes of (Packard)—	
[1st] report. 1883. p. 138	A1.1:883
same, p. 138	
2d report, p. 374	_
3d report, p. 319	A1.1:885
same, additions. p. 17.	
4th report. 1886. p. 20	1
5th report. 1887	A8.1:4
Quarantine of cattle, sheep, and other ruminants, and swine.	
1902	A4.5:99
Snow in, report on, 1817-40 (Larned). p. 75	A29.6:22
Southern, and other localities, relative humidity of (Henry).	
1896	A29.3:19
Sugar beet, culture of (McMurtrie). 1879. p. 181	A1.6:28
Thunderstorms in, investigation of (Ward). 1893. p. 30	A29.3:9
New England Meteorological Society, 36th regular meeting of, notes	
on (Abbe). 1896. p. 13	A29.6:24
New Hampshire:	
Farm of J. B. Walker, at Concord. 1870. p. 76	A27.9:8
Farm resources and products of. 1868. p. 5	A27.9:6
Forest condition and lumber and wood trade of (Hough). 1884.	
p. 348	A13.5:4
p. 348 Pig-feeding experiments in (Burkett). p. 465	A4.1:899
Road improvement in, extract from governor's message (Rollins).	
p. 5. Wheat growing in (Bartlett). p. 96.	A22.4:33
Wheat growing in (Bartlett). p. 96	A1.1:862
See also Hampton Beach — Washington, Mount.	100 0 00
New Haven, Conn., winds and rainfall of, 1873-1900 (Davis). p. 261.	A29.6:30

Index	Classification no.
New Jersey:	
Abutilon avicennæ in, cultivation of (Waterhouse). p. 606	A1.1:879
Agricultural education in (Cook). 1882. p. 7	A1.8:22
Army worm in, account of invasion of— 1880 (Lockwood). p. 139	<b>A</b>
1881 and 1882. p. 101.	A1.1:881-2
same, p. 101	A9.1:882
Cattle in, anthrax among (Hunt). p. 359	A1.1:881-2
Contagious pleuro-pneumonia in (Hunt). p. 297	A4.1:8 <del>01</del> A1.1:877
Economic peronosporese for 1889 in, some notes upon (Halsted).	
1889. p. 201	A28.5:5
Farm resources and products of. 1868. p. 15	
Food and nutrition investigations in, 1895 and 1896 (Voorhees)	A10.3:35
Horse breeding in (Romaine). p. 385	
Insects in, notes on (Smith)— 1891. p. 43	AO 7.4
1892. p. 93	
1893. p. 187	A9.7:6
1894. p. 185	
Irrigation in, notes on (Phelps and Voorhees). 1897	A10.3:36
1900	A10.3:87
1902. p. 353	A10.3:119
Pleuro-pneumonia among cattle in, investigation (Miller). p. 45.	
same (Corlies). p. 46	A1.1:881-2
1869 and 1870. p. 221.	A1.7:7
San Jose or pernicious scale in, distribution of (Smith). 1898.	40.0.17
p. 32 San Jose scale in (Smith). 1894. p. 163	A9.6:17 A9.7:7
Southern, agriculture in. 1868. p. 140	A27.9:6
Southwestern, tide lands in, reclamation of. 1870. p. 230	A27.9:8
State aid to road building in (Burrough). 1894	A22.3:9
same (Owens). 1901. p. 22	A27.9:7
Stone roads in (Harrison). 1895. p. 23	A22.3:17
West, market products of (Lippincott). p. 249.	A1.1:865
See also Atlantic City — Bergen Point — Cherry Hill — Hudson County — Long Branch — Oakland — Rio Grande — Salem —	
Trenton — Vineland.	•
New Mexico:	A 7 0 00
Agricultural features of (Furnas). 1892. p. 173	A1.8:20 A27 Q-7
Anthrax in, outbreak of (McLean). 1881. p. 317.	
Artesian basins in, geological conditions of (Van Diest). 1890.	
p. 87	A15.2:Ar7
233	A15.2:Ar7
Chilo saccharalis in (Townsend). 1891. p. 24	A9.7:4
Climatic and agricultural features of, note on (Hilgard and others).	A1.8:20
Dietary studies in, 1895 (Goss)	
Eastern, artesian and underground waters in, west of 97th merid-	
ian (Hill). 1893. pt. 3, p. 41  Entomological notes from (Cockerell). 1902. p. 107	A15.2:Ir7 <sup>2</sup>
Entomological notes from (Cockerell), 1902. p. 107	A9.0:37 A27.9:8
Farm resources and products of. 1868. p. 279	A6.3:6
Forest conditions of Rocky Mountains in (Ensign). p. 41	A13.3:2
Fruits of, tropical and semitropical (Klee). 1891. p. 111	AZU.3:1 AR 9:R
Grasses of desert region of plates and descriptions of (Vasey).	
1890same.	A6.2:N821
same	' A6.3:12

	Classification no.
New Mexico—Continued	
Insect injury in, possible and actual influence of irrigation on	
(Townsend). 1892. p. 78	A9.7:5
Insects—	40 77
biologic notes on (Townsend). 1892. p. 37	A9.7:0
injurious of, notes on (Cockerell). 1894. p. 207	A 10 9.110
Irrigation in, 1901. p. 37	1 AQ 7.R
Northwestern, diurnal winds on faint radient in (Dodge). 1901.	A9.1.0
and the same of the same of the same of the same of the same of the same of the same of the same of the same of	
p. 299	A10.3:54
Plants in, certain, of economic value as food for man and stock	
(Richardson), p. 282	A1.1:887
Statistics of. 1876. p. 477	A27.9:14
Water supply of, for season of 1900 as depending on snowfall	
(Hardinge). p. 496	A29.6:28
Wine in. 1866. p. 424	A27.9:4
See also Pecos River — Pecos Valley.	
New Orleans, La.:  Ramie machine trials at. 1892. p. 347	A 27 Q · 20
Weather forecast district, report of, monthly, Sept., 1901-Oct.,	A.41.0.00
1902 (Cline)	A29.6
New Orleans, La., World's Industrial and Cotton Centennial Expo-	
sition, 1884–5:	
Agriculture Department, exhibit of manufactures from native	
woods, catalogue of (Dodge). 1886	A1.7:10
Catalogue of exhibit of economic entomology at. 1888	A9.2:N42
Exhibits illustrating agricultural statistics (Dodge). 1885	A1.8:40
Grass collections at, descriptive catalogue of (Vasey)	A6.2:G76
New Richmond, Wis., tornado at (Liddy). 1899. p. 299	A29.6:27
New South Wales: Cattle tick and tuberculosis in (Baker). p. 386	A A 1.000
same, correction, p. 502	
Corn in, production of. 1893. p. 311.	A27.9:31
Irrigation in, recent investigation, legislation, and administration	
(Hinton), 1891, p. 235	A15.2:P94 <sup>1</sup>
Sheep breeding in. 1875. p. 526	A27.9:13
Sugar-cane insects in (Koebele). 1892. p. 385	<b>A9.7:4</b>
New York Agricultural Society, Albany, Feb., 1871, annual meeting	
of. p. 66	A27.9:9
New York City:	
· Animals in, contagious diseases of, preliminary report of veterinary inspectors in investigation of (McLean and others).	
1884 n 19	A1 7.6
1884. p. 19. Cattle market, 1858–63. No. 1, p. 33.	A27.9:2
Dietary studies in—	
1895 and 1896 (Atwater and Woods)	A10.3:46
1896 and 1897 (Atwater and Bryant). 1902	
Entomological work in Central Park, 1891 (Southwick). p. 59	
Exports and imports of, 1863. No. 5, p. 10; No. 6, p. 19	A27.9:1
same, 1864. No. 1, p. 30; No. 2, p. 27; No. 3, p. 6; No. 4, p.	A 07 0.0
8; No. 5, p. 33; No. 6, p. 32 same, 1862-64. No. 1, p. 31; No. 2, p. 32	A27.9:2
Harbor of, fog in, Dec., 1895 (Abbe). p. 463	A 20 R 23
same 1901 (Abbe) n 175	A 29 8 29
Hay market, 1867-70. p. 23. Immigration at, JanJune, 1864. No. 4, p. 8.	A27.9:9
Immigration at, JanJune, 1864. No. 4, p. 8.	A27.9:2
same, July-Sept., 1864. No. 5, p. 37.  Live stock receipts at, 1867-68. p. 21.	A27.9:2
Live stock receipts at, 1867-68. p. 21	A27.9:7
same, 1869. p. 44	<b>A27.9:8</b>
Market gardening in vicinity of (Henderson). p. 243	A1.1:865
Parks of, economic entomological work in (Southwick). 1894.	AO 7.7
Poulter in sole of 1980 ~ 200#	AV. 1:1
Precinitation at 1870–91 (Dranar) n 79	A 29 R-20
p. 135  Poultry in, sale of. 1869. p. 302*  Precipitation at, 1870-91 (Draper). p. 79  Prices in, 1855-66. p. 207	A27.9:4
ARV a migning this nage number enner twice	,

	Classification no
New York City—Continued	
Public schools of, cooking instructions in, history and present	A 1 0 9.50
status of (Hogan). 1899  Thermometer readings at, comparative (Henry). 1900. p. 99  Tides at distant storms indicated by (Jones). 1894. p. 372	A10.5:50 A29.6:28
Tides at, distant storms indicated by (Jones). 1894. p. 372	A29.6:22
Trade of, 1866-68. p. 19	A27.9:7
Weather Bureau office in, removal of (Henry). 1898. p. 455	A29.6:26
New York City. [2d] international conference on plant breeding	A8.7.7
New York City, [2d] international conference on plant breeding and hybridization, 1902, report on. 1902. p. 208.	A10.6:14
New York Dairymen's Association, 14th meeting, Dec. 9-11, 1890	
(Walton). p. 625	A27.9:28
Anthrax among cattle in (Law). 1881. p. 312.	A1.6:34
Boards of supervisors of, third annual good-road convention, Al-	
bany, 1902 Broom-corn culture in. 1867. p. 286.	A22.3:22
Cattle feeding in (Stewart). p. 299	A27.9:5 A1.1:876
Cheese industry of (Gilbert). 1896	A4.3:15
Entomologic service in, voluntary (Felt). 1899. p. 39	A9.6:20
Farm resources and products of. 1868. p. 10	
Forest and shade tree insects in, observations on (Felt). 1901.	AQ 6.21
p. 63.  Hessian fly in, in 1901 (Felt). 1902. p. 22  Highway legislation in, history of (Wright). 1901. p. 29	A9.6:31
zing way regulation, matterly or ( wing me). The results in	A22.3:21
Insects of, notes on—	10.0.0
1896 (Lintner). p. 54 1898 (Felt). p. 16	A9.6:6
1899 (Felt). p. 60	
1902 (Felt). p. 102	A9.6:37
Lightning in, destruction by, Aug., 1898 (Allen). p. 357	
Lumber industry, history of (Fox). 1902	A13.3:34
[1st] report, p. 138.	A1.1:883
same, p. 138	A9.1:883
2d report, p. 374	A1.1:884
Pleuro-pneumonia among cattle in, investigation of (Hopkins).	A1.1:881-2
Road improvement in—	
address on (Stone). 1897	
extract from governor's message (Roosevelt). p. 6	A22.4:33
construction of, by local assessment, act for. 1894	A22.4:15
good, State aid to (Bond). 1901. p. 20.	A22.3:21
San Jose scale in, experimental work against (Felt). 1902. p. 35.	
Snow country of central, note on (Kimball). 1902. p. 135	A29.6:30 A29.6:20
Tuberculosis among cattle in, prevalence of (Schroeder). 1896.	1120.0.20
p. 66	A4.1:893-4
Western— grape in, diseases of (Fairchild). 1891. p. 95	A28.5:6
leaf diseases of nursery stock in, experiments in preventing	A20.0.0
(Fairchild). 1891. p. 240.	A28.5:7
new or rare fungi from, notes on (Fairman). 1889. p. 78	A28.5:5
See also Albany—Buffalo—Franklinville—Ithaca—Poughkeep- sie—Richmond County—Syracuse—Utica—Westfield—	
Willets Point — Woodhaven.	
New York State Agricultural Experiment Station, Geneva, N. Y.:	
Biological and dairy building of, report on. 1899. p. 401	A10.6:10
Methods of keeping records of horticultural work at (Beach).  1898. p. 72	A10.3:49
New York State Cheese Manufacturers' Association, 2d annual re-	
port of. 1865. No. 5, p. 6	A27.9:3
New York State forest preserve. See Hosmer, Ralph S., and Bruce, Eugene S.	
New Zealand:	
Icerya purchasi and Vedalia cardinalis in (Wright). 1893. p. 194.	A9.7:6

	Classification no.
New Zealand—Continued	
Insects in. parasitic and predaceous, studies of (Koebele). 1893	A1.8:51
Root fungus of (Wight). 1889. p. 199	A28.5:5
Sheep in, blood poisoning in (Gilruth). p. 233	A4.1:901
Sheep scab, how stamped out in. p. 505	A4.1:900
New Zealand flax, results of recent investigations relating to (Dodge).	
1893. p. 62	A11.5:5
New Zealand katipo, report on (Wight). 1889. p. 134	A9.7:2
Newberne, N. C., soil survey from Raleigh to (Smith). p. 187	A26.5:900 <sup>1</sup>
Newcomb, Harry T. Railway and other transportation services,	
changes in rates of charge	A27.8:15
Newcomb, Simon. Meteorological subjects, explanations of. 1902.	4.00.0.00
p. 127	A29.6:30
Newcombe, F. C. Perennial mycelium of fungus of blackberry rust. 1891. p. 106.	A 90 K.Q
Newell, Frederick Haynes:	A28.5:6
Irrigation on Great Plains. 1896. p. 167.	A1.10:896
Lumbering, conservation, and water-supply. 1901. p. 3	A13.3:30
Rainfall and charts of rainfall. 1902. pp. 225, 226	A29.6:30
Newell, Wilmon. See, as joint author, Webster, Francis M.	ļ
Newspaper and the weather forecaster (Watts). 1901	
Same (Watts). 1902. p. 43	A29.3:31
Newspaper crop reports. 1874. p. 427.	A27.9:12
Newspaper fakes, notes on (Abbe). 1899. p. 155	A29.6:27
Newton, Isaac: Cotton and wool American future of 1884 No. 1 n. 19	A 97 Q.9
Cotton and wool, American, future of. 1864. No. 1. p. 12  Dyer's madder, culture of. 1866. p. 94	A27.9:4
Tobacco leaf, tax on, proposed. 1864. No. 1. p. 17	A27.9:2
See also, for reports as Commissioner of Agriculture, 1862–1866	
Newton, Isaac, short biography of. 1867. p. 189	
Newton, Isaac, and his kites (Abbe). 1896. p. 458	A29.6:24
Niagara River, ice jam in, note on (Abbe). 1899. p. 61	A29.6:27
Nicaragua:	100 0 07
Central and western, rainfall in (Flint). 1899. p. 587	A29.6:27
Cyclone in, report on (Clancy). 1897. p. 356	A29.6:25
Rainfall and temperature in (Davis). 1898. p. 211	A 29 6.27
Rainfall in, record of 1850-51 (Childs). p. 409.	A29.6:26
same, 1876-93 (Henry). p. 305	A29.6:26
See also Granada — Masaya — Rivas.	
Nichols, George. Phreatic waters in Nye County, Nev. 1891. p. 207.	A15.2:P94 <sup>1</sup>
Nicholson, H. H. See, as collaborator, Wiley, Harvey Washington.	
Nicol, T. W. Orange sorghum cane, cultivation and manipulation of, communication relative to. 1882. p. 122	A1.8:22
Nicolai, H. E. Agricultural work at Dyea, Alaska, during season of	A1.6.22
1901. p. 312	A10.12:901
Nicotin. See Tobacco powders and extracts.	
Nielsen, H. P. Kenai experiment station, Alaska, report of super-	
intendent. 1901. p. 254	A10.1 2:901
Night forecasts, Weather Bureau, is it advisable to distribute by rural	1.00.00
free delivery? (Blystone). 1902. p. 191	A29.3:31
Niin of Yucatan, nature and uses. p. 268.	A1.1:868
Nile floods and Indian monsoons, notes on (Abbe). 1900. pp. 252, 324.	A29.6:28 A29.3:11 <sup>1</sup>
Nile River (Willcocks). 1894. p. 121. Nile Valley, berseem, forage and soiling crop of (Fairchild). 1902.	A 19.3.23
Niles, W. B. Hog cholera in Iowa. p. 500	A4.1:898
Nimes, France, popular credit congress, 1895, notice on. p. 26	A27.9:33
Nimmo, Joseph W., jr. Irrigation in Montana, Idaho, eastern Wash-	
ington, and Oregon, in 1890. p. 149	A15.2:P94 <sup>1</sup>
Nineteenth century See Century, new.	1100
Nitragin, a germ fertilizer for leguminous plants. 1897. p. 19 Nitrates:	A1.9:65
Gunning-Kjeldahl method and a modification applicable in pres-	
ence of (Voorhees). 1892. p. 85.	A7.3:35
Nitrogen in, Kjeldahl method applicable to determination of	111.0.00
(Scovell). 1887. p. 51	A7.3:16

	Classification no.
Nitric acid: Determination in soils, by Schloesing's method, at Rothamsted	
Laboratory (Warington). 1886. p. 47.  Effects of presence of few drops of, in acid digestion of soils	A7.3:11
(Thompson). 1895. p. 49.  Method for phosphoric acid determination (Richards). 1886.	A7.3:47
p. 24	A7.3:12
Complete fertilizers, Ulsch method in determining (Street). 1892.	
p. 88	A7.3:35
by zinc-iron method (Shiver). 1894. p. 142	A7.3:43
report on (Sherman). 1895. p. 112	A7.3:47
Nitrification: Arable soil (Deherain), 1896, pp. 353, 491	A10 6-6
Arable soil (Deherain). 1896. pp. 353, 491.  Element of soil productiveness (Withers). 1902. p. 87	A10.3:115
Rate of, of certain fertilizers (Withers and Fraps). 1901. p. 25.	A7.3:62
See also Soils.	
Nitrogen: Availability of, in mixed fertilizers (Terne). 1893. p. 40	A7.3:38
Determination by Kjeldahl method of—	A1.0.06
distilling with and without potassium sulphid (Sweetser).	
1896. p. 25	A7.3:49
effect of presence of metals precipitable by potassium sulphide	A7.3:31
(Snyder). 1891. p. 39	
same (Spencer). 1886. p. 36	A7.3:12
Determination of—	
in fertilizers, report of committee on (French Association of	17010
Sugar Chemists). 1887. p. 54	A7.3:16
in soils of some of the experimental fields at Rothamsted, and bearing of results on question of source of nitrogen of	
our crops (Lawes and Gilbert). 1882. p. 142.	A1.8:31
report of committee for, at Association of Official Agricultural	
Chemists—	A 7 9.7
1885. p. 43 1886. p. 34	
1887. p. 45	
1888. p. 43	-
1889. p. 85	A7.3:24
1890. p. 11	
1891. p. 117 1892. p. 67	
1892. p. 67	
1894. p. 136	
1895. p. 106	
1896. p. 12	
1897. p. 15	
1898. p. 14 1899. p. 49	
1900. p. 16	
1901. p. 77	A7.3:67
Free atmospheric, contribution to investigation of assimilation of,	
by white and black mustard (Lotsy). 1894	A10.3:18 ·
Hoar frost especially rich in (Abbe). 1896. p. 371	A29.6:24
and digestibility of food, experiments on effect of muscular	
work upon, conducted at University of Tennessee, 1897-	
1899 (Wait). 1901	A10.3:89
effect of muscular work upon, experiments on, conducted at University of Tennessee, 1899–1900 (Wait). 1902	A10.3:117
in human organism, experiments on (Sherman). 1902	
in human organism, with respiration calorimeter of special	
construction, report of preliminary investigations on	
(Atwater and others). 1897.  Metabolized, excretion of, by animals (Langworthy). 1897.	A10.3:44
	A10.6:7
p. 817	1110.U.I

	Index Classification no.
Nitrogen—Continued	CIMBILICATION EQ.
Organic, in mixed fertilizers, availability of (Hayes). 1895.	A7.3:47
See also Albuminoid nitrogen—Nitric nitrogen—Phosphoric acid.  Nitrogen assimilation in its application to practical agriculture.	
1897. p. 906 Nitrogen-free extract of plants and feeding stuffs (Tollens). 1897.	A10.6:7
p. 641 Nitrogen hungriness in soils, recognition of (Hilgard). 1895. p. 58.	A10.6:8 A7.3:47
Nitrogen of proteids and that of simpler amids or amido-acids, investigation of analytical methods for distinguishing between (Mallet). 1898	A7.3:54
Nitrogenous compounds of animal and vegetable substances, suggestions regarding nomenclature of (Atwater). 1899. p. 118	A10.3:65
Noctuidæ, from Death Valley, descriptions of (Smith). 1893.	
Nodular tæniasis in fowls (Moore). 1895 Nome, Cape, Alaska:	A4.4:3
Meteorological report from, Sept., 1900, note on (Abbe). p. 397. Temperatures, note on (Abbe). 1900. p. 212	A29.6:28 A29.6:28
Mohler, John R. Norfolk, Va., tornado and waterspout at, on Aug. 6, 1901 (Gray).	A 90. <i>Q</i> .90
p. 372 Nörgaard, Victor Andreas:	A29.6:29
Anthrax, prevalence of, among domesticated animals. p. 40 Baden-Baden, Germany, Seventh International Veterinary Congress, Aug. 7-12, 1899. p. 534	A4.1:89-43 A4.1:899
Blackleg in United States and distribution of vaccine by Bureau of Animal Industry. p. 27.	A4.1:898
same, abstract; "Blackleg, its nature, cause, and prevention."	
1900 Blackleg; its nature, cause, and prevention Blackleg vaccine—	A4.4:23
directions for use of. 1897 same. 1900	A4.4:23 <sup>8</sup>
free distribution of. p. 35	
potassium. p. 135 same. 1893. p. 39	A4.3:2
Cattle dipping, experimental and practical. 1898. p. 453	A4.1:895- <b>6</b>
Vaccination, preventive against blackleg. 1897	
Apoplectiform septicemia in chickens, preliminary report on highly fatal disease caused by a nonpyogenic streptococcus.	
1902 Ovine caseous lymph-adenitis, nature, cause, and economic im-	A4.3:36
portance of. p. 638	A4.1:899 A27.9:14
North, Edward P. Macadam roads and electric street railways, relation between. 1902. p. 59	A22.3:22
North America: Animals and plants in, geographic distribution of (Merriam).	A1.10:894
p. 203. Cereals in, geographic distribution of (Plumb). 1898. Desert flora between 32° and 42° north latitude (Parry). 1871.	A5.3:11
p. 23	A27.9:9 A5.3:1
rows). 1889	
observations on new species of (Lagerheim). 1891. p. 44 Indians of, food products of. p. 404	A28.5:7
Injurious insects in, recent laws against, with laws relative to foul brood (Howard). 1898	A9.6:13

Index	Classification no.
North America—Continued	CIRCLE CREEKING NO.
Locusts in—	
destructive, with notes on occurrences in 1891. p. 18	A9.7:4
extracts from early literature on (Berthoud). 1883. App.,	A8.1:3
p. 59	A29.3:11 <sup>2</sup>
Maples of (Vasey). 1875. p. 313.	A27.9:13
Mycological literature of, index to (Fairchild). 1891. pp. 42,	A 90 5.0
80, 128, 184 same (Fairchild). 1891. p. 52	A28.5:7
Oaks of (Vasey). 1872. p. 313	A27.9:10
Weasels of, synopsis of (Merriam). 1896.	A5.5:11
North American. [Titles beginning with the words "North American" are entered under	
the distinctive words of such titles.]	
North American fauna, nos. 1–19	A5.5:
Same, circulars for acknowledgment of	A5.4:
Currents and surface temperatures (Hautreux). 1894. p. 192	A29.3:11 <sup>1</sup>
Hurricane tracks in, recurving of (Abbe). 1899. p. 468	A29.6:27
Storms, monthly reports on	A29.6:
Agricultural education in (Holmes). 1883. p. 84	A1.7:2
Agriculture and climate of (Goodloe). 1867. p. 150	
Cattle quarantine of counties in— Dec. 16, 1897. p. 9	A 4 5 . Q 1 A '
Dec. 20, 1898. p. 5	
Dec. 19, 1899. p. 9	A4.5:49-55
Dec. 14, 1890. p. 9.	
Jan. 11, 1902. p. 12. Dec. 27, 1902. p. 12.	
Chestnut trees in, decay of. 1867. p. 58	A27.9:5
Climate and crops in, 1889-98. (Herrmann). p. 544	A29.6:26
Farm resources and products of. 1868. p. 73. Farmers' institute work accomplished in (Patterson). 1902. p. 40.	A27.9:6 A10.3:120
Forecasting for rivers of small drainage area, especially those of	
(Herrmann). 1902. p. 158. Hog-fever in, investigation of (Salmon). p. 432.	A29.3:31
Horses in, disease known as "staggers" among (Harbaugh). p. 209.	A4.1:886
Irrigation of rice in (Keeney). 1902. p. 59.	A10.3:113
Mountain meteorological stations in, note on (Abbe). 1897. p. 445.	A29.6:25
Opium from (McMurtrie). 1873. p. 499	A27.9:11
address on (Stone). 1897.	A22.4:28
extract from governor's message (Russell). p. 6	A22.4:33
use of convicts in (Holmes). 1895. p. 5  Roads in, public, improvement of (Holmes). 1894. p. 513	A22.3:16 A1 10:894
Seismic noises in (Hawkins). 1897. p. 393	A29.6:25
Sheep husbandry in (Young). 1878. p. 115	A1.2:Sh3
Swine-plague in (Salmon). 1879. p. 123	A1.0:12 A27.9:21
See also Alamance County — Cary — Newbern — Raleigh — Salis-	1121.0.21
bury — Statesville — Winston-Salem.	
North Carolina strand vegetation. See Ocracoke Island. North Dakota:	
Artesian well investigation, field work (Culver). 1890. p. 55	A15.2:Ar7
same (Underhill). 1890. p. 105 Dairy industry in (Monrad). 1896	A15.2:Ar7
Grasshoppers in (Waldron). 1892. p. 13	A4.3:16 A9.3:27
Russian thistle and other troublesome weeds in wheat region of	A1.9:10
Snowfall in, 1895 (Abbe). p. 463	A29.6:23
See also Turtle Mountains.  North Dakota Agricultural College, club of women students at, diet-	
ary study of (Ladd). 1901. p. 21  North Pacific coast weather map, explanation of (Moore)	A10.3:91
North Pacific coast weather map, explanation of (Moore)	A29.2:N81 A9.6:28
Northern farming. See Farming.	

•	Index
Northern stock ranges, some poisonous plants of (Chesnut). 1900.	Classification no.
p. 305	A1.10:900
Northern sugar-cane. See Sorghum.	
Northern sugar inclustry, record of its progress during season of 1883	
(Wiley). 1884	A7.3:3
Northern United States, fruit regions of, and their local climates (Lippincott). p. 137	A1.1:866
Northers:	A1.1.000
Caribbean Sea and Gulf of Mexico, notes on (Abbe). 1898. p.	•
568	A29.6:26
Cold waves and heavy snows, possibility of giving warnings of,	
to stock-raising interests 48 hours in advance (Branden- burg). 1899. p. 33	A29.3:24
same (Glass). 1899. p. 35	A29.3:24
Dry-	
in Nevada (Abbe). 1895. p. 173	
of California (Abbe). 1895. p. 212	A29.6:23
September, on Mexican coast (Baturoni). 1892. p. 252	A29.6:20 A29.6:21
Vera Cruz (Abbe). 1894. p. 226	A29.6:21
Northfield, Mass., meteorological extremes at (Elmer). p. 251	A29.6:26
Northrop, B. G. Arbor Day, observance of, by schools. p. 27	A1.8:56
Northwest:	41.004
Anthrax among cattle in the (Detmers). 1881. p. 312 same (McLean). 1881. p. 311	
Beet sugar manufacture in, as compared with European countries	A1.6:34
(Fredericksen), 1879, p. 275	A1.6:28
Codling moth, investigations in, in 1901 (Simpson). 1902	A9.6:35
Drought and fire in. 1871. p. 401  Flax culture in the, in 1891 (Bosse). 1892. p. 40	A27.9:9
Flax culture in the, in 1891 (Bosse). 1892. p. 40	A11.5:4
Forage crops of, cultivated (Hitchcock). 1902	
Hog raising in (French). 1900. p. 16	A1.9:117 A1 9:117
Insect enemies of forests in, preliminary report on (Hopkins).	211.0.111
	A9.6:21
1899. p. 21 Live-stock industry of (Standart). p. 326.	A4.1:885
Marten, new (Mustela caurina) from (Merriam). 1890. p. 27	
Plants from, two new species of (Henderson). 1899. p. 201	
1883. p. 7	A9.3:2
1883. p. 7 Seed wheat for, correspondence on. 1868. p. 285	A27.9:6
Spring wheat culture in (Andrews). 1882	A1.6:40
Wheat growing in. 1868. p. 323.	A27.9:6
See also Pacific Northwest — and names of States.  Northwesters of Canterbury, New Zealand (Abbe). 1895. p. 383	A 90 . 6.99
Norway:	A29.0.23
Agriculture in, statistics of. 1873. p. 259	A27.9:11
Climate of (Mohn), p. 647	A29.3:11 <sup>3</sup>
Insects of, notes on (Schoyen). 1897. p. 79	A9.6:9
Markets for American products in.	A12.3:7
Thelemark cattle of. 1876. p. 432	AZ7.9:14 A1 0:19
Notiosrex. See Shrews.	A1.0.12
Nova Scotia, tidal lands and diked marshes of (Boardman). 1885.	
p. 33	A1.7:7
November, weather conditions for, monthly statement of average	1.00.0.00
(Garriott). 1900. p. 483.  Novius cardinalis, introduction of, from America into Portugal, ac-	A29.6:28
count of (Le Coco) 1898 n 39	A9.6:18
count of (Le Cocq). 1898. p. 32	A9.6:18
Noxious animals. See Animals, noxious.	
Noxious weeds (Coville):	
1889. p. 382 same, p. 382	A1.1:889
8ame, p. 382	A6.1:889 A1.1:890
1830. p. 388	A6.1:890
wasty fr vv	

Index	Classification so.
Noyes, G. Harold:	
Aerial observations. 1899. p. 117 Industries of Porto Rico, value of climate and crop and storm-	A29.3:24
warning services of Weather Bureau to. 1902. p. 60	A29.3:31
Noyes, La Verne W. Remarks of, at 2d convention of Weather Bu-	A 90 9.91
reau officials, Milwaukee, Wis. 1901. p. 226.  Nummularia, North American species of, synopsis of (Ellis and Ever-	A29.3:31
hart). 1889. p. 19. Nunn, Roscoe. Career Weather Bureau service offers to young men.	A28.5:5
1902. p. 78	A29.3:31
Nursery inspection:	A 10 0.05
Connecticut (Britton). 1899. p. 131	A10.3:99
same (Smith). 1901. p. 165	A10.3:99
Laws and rulings, suggestions toward greater uniformity in (Felt).	A10.3:99
1901. p. 161 Report on (Craw). 1900. p. 87	A10.3:99
Nursery stock:	A10.3:76
Growth of, effect of spraying with fungicides on (Galloway). 1894.	A28.3:7
Leaf-blight and powdery mildew in, treatment of (Galloway).  1891	A28.4:10
Leaf-blight of, experiments with fungicides to prevent (Fairchild).  1891. p. 338	A28.5:7
Principal insects liable to be distributed on (Banks). 1902	A9.6:34
Western New York, leaf diseases of, experiments in preventing (Fairchild). 1891. p. 240.	A 28 5.7
Nut grass:	
Circular on (Dewey). 1894	A6.4:2
same, p. 388	
Nutrients: Food; food economy, report on	A 10 4 · 43
Food, heat equivalent of (Stohmann). 1896. p. 590	A10.6:6
Loss of, in boiling potatoes, carrots, and cabbage (Snyder). 1897.	A10.3:43
Metabolism of, in animal body, and source of muscular energy	
(Zuntz). 1897. p. 538	A10.6:7
Nutrition:	A1 0 140
Principles of, and nutritive value of food (Atwater). 1902	
See also Food and nutrition.	•
Nutrition investigations: Agriculture Department, development of, 1899. (True and	
Milner). p. 403.  California Agricultural Experiment Station, 1896–1898 (Jaffa).	A1.10:899
1900	A10.3:84
Illinois University, North Dakota Agricultural College, and Lake Erie College, Ohio. 1896–1900	A10.3:91
New Mexico, 1897 (Goss)	A10.3:54
Of Office of Experiment Stations— lists of publications of office on	A10 9-F79
scope and results of. 1902. p. 437	A10.1 2:901
Pittsburg, Pa., 1894–1896 (Bevier) Tennessee University, 1896 and 1897 (Waite)	A10.3:52 A10.3:53
See also Dietary studies — Food — Food and nutrition — Metabo-	11010.00
lism investigations. Nuts:	
As food (Langworthy). 1900. p. 18	A1.9:122
Culture of— in U.S., embracing native and introduced species (Corsa). 1896.	A20.2:N95
report on (Engle). p. 37 same, reprinted. 1896	A20.1:894
Production of in U.S. in 1889, and quantities and values im-	
ported from 1890 to 1895. p. 551 Same, 1891–1896. p. 596	A1.10:895
раше, 1991–1990. р. 990	A1.10:080

	Classification n
Nuts—Continued  The standard Chartman Franklich and back December 1	
Nee also Almonds — Chestnuts — English walnuts — Peanuts — Pecan — Spanish almonds.	
Nutter, Edward H. Water-bearing gravels and formations tribu-	
tary to underground water supply of Salinas Valley, Monterey	
County, Cal. 1901. p. 208  Nutting, Rufus. Farmers' clubs. p. 236	A10.3:100
Nutting, Rufus. Farmers' clubs. p. 236	A1.1:867
Nye County, Nevada, phreatic waters in (Nichols). 1891. p. 207	A15.2:P94 1
Oak-feeding silk-worm. See Japanese oak-feeding silk-worm. Oakland, Cal., Golden Gate fair, cattle exhibited at, order provid-	
ing for. Sept. 8, 1900	A4.5:73
Oakland, Bergen County, N. J., wood lot at, belonging to E. D.	
Page, working plan for (Graves). 1898. p. 301	A1.10:898
Oaks, North American (Vasey). 1872. p. 313	A27.9:10
Oats: Cost of marring in Illinois 1972 n 28	A 97 Q.11
Cost of growing in Illinois. 1873. p. 36	
Crop statistics, annual	
Disease of, new and destructive, preliminary notes on (Galloway	1.
8 <b>n</b> l Southworth). 1891. p. 72	A28.5:6
Probetier. 1866. p. 436	1 A27.9:4
Rusted, request for specimens of (Dabney). 1894	A28.4:14
notes on (Galloway). 1889. p. 164	A28.5:5
prevention of (Kellerman and Swingle). 1891. p. 26	A28.5:6
treatment of. 1892	A1.9:5
Straw and stubble of, specimens requested (Rusk). n. d	A28.4:12
Volunteer, note on. 1867. p. 207.	A27.9:5
White Polish, experiments with. 1869. p. 55	A27.9:7
Oaxaca, State of, Mexico, Mexican umbelliferæ, mostly from, col-	
lected by C. G. Pringle and E. W. Nelson, report on (Coulter	
and Rose). 1895. p. 289	A6.5:3
Oberholzer, G. K. Thermometers, maximum and minimum are too	
fragile; can not effective protection be devised without impairing sensitiveness? should not aluminum scales be dis-	
carded? 1902. p. 217	A29.3:31
Object-lesson roads. See Roads.	1
O'Brien, Glenn. Sorghum-sugar, cold clarification. 1892. p. 88	A7.3:37
See also, as collaborator, Wiley, Harvey Washington.	100 0.04
Observatory, aero-physical, equipment of (McAdie). 1896. p. 453 - Ocean:	A29.0:24
Currents of—	
drift ice and theory of (Daly). 1900. p. 433	A29.6:28
note on (Page). 1902. p. 397	A29.6:30
strength and direction of, relations between barometric pressure and (Beehler). 1894. p. 177	A90 9.111
Does lightning ever strike? (Trowbridge). 1902. p. 478	A29.6:30
Storm waves on (Abbe). 1895. p. 341	A29.6:23
Storms, forecasting, and best methods of making such forecasts	
available to commerce (Allingham). 1894. p. 150	
Temperatures and meteorology, notes on (Abbe). 1898. p. 310. Tides in—	A29.6:26
notes on (Abbe). 1900. p. 109	A 29 6 28
partial explanation of some (Harris). 1900. p. 103	A29.6:28
principal, partial explanation of some of (Harris). 1900. p.	
103	A29.6:28
Ocean transportation:	A 4 1-000
Cattle and horses. p. 87 Products of agriculture, freight charges for, 1895–96	A27 8-19
Oceanic noises, report on (Kain and others). 1898. p. 152	A29.6:26
Same (Abbe). 1898. p. 216. Ockerson, John A. Mississippi River, flood planes of. 1894. p. 81.	A29.6:26
Ockerson, John A. Mississippi River, flood planes of. 1894. p. 81.	A29.3:11 <sup>1</sup>
Ocracoke Island, plant covering of, a study in the ecology of the	AOEE
North Carolina strand vegetation (Kearney). 1900. p. 261 October, weather conditions for, monthly statement of average	
(Garriott). 1900. p. 430	A29.6:28

ANGUA	Classification me
Odenbach, F. L. Remarks of, at 2d convention of Weather Bureau officials, Milwaukee, Wis. 1901. p. 229	A29.3:31
Odessa, Russia:	
Agricultural exports from. 1869. p. 153	A27.9:8 A27.9:13
Trade of. 1874. p. 170	A27.9:12
O'Donnell, John J. Tornado of Jan. 12, 1898, at Fort Smith, Ark.	4 90 <i>Q</i> 92
p. 18 Oemler, A. Truck farming, report on. p. 583	A29.6:26 A1.1:885
Offal, packing-house, utilization of (Armour). p. 514	A4.1:900
Official Agricultural Chemists, Association of. See Chemists.  Ogden, Miss E. L. Leaf structure of Jouvea and of Eragrostis obtusi-	
flora. 1897. p. 12	<b>A3.3:8</b>
Ohio:	A4.1:885
Cattle trade and dairy interests of (Perry). p. 335	A9.7:5
Chinch bug in, three years' study of an outbreak of (Webster).	
1896. p. 18	A9.6:6 A9.6:37
Derecho of May 16,1899, in (Smith). 1900. p. 196	A29.6:27
Farm resources and products of. 1868. p. 249	A27.9:6
Farmers' institute work accomplished in (Miller). 1902.	A10.3:120
Forestry for certain portions of (Furnas). 1884. p. 346	A13.5:4
Frost of June 30, 1899, in, destructive, notes on (Abbe). p. 311. Horn fly in, note on (Kellicott). 1891. p. 35	A29.6:27 A9.7:4
Insects in—	110.1.1
as reported to Association of Economic Entomologists—	AO 7.6
1893 (Webster). p. 186	
1895 (Webster). p. 84	A9.6:2
1896 (Webster). p. 66	
1898 (Webster and Mally). p. 98	A9.6:17
1899 (Webster and Mally). p. 68	
1900 (Webster). p. 84	
1902, 1st half (Osborn). p. 115	A9.6:37
notes on, 1886 (Alwood). p. 48same, 1891 (Webster). p. 63	
Meteorological records in, notes on (Abbe). 1900. p. 343	
Northern— chinch bug in, interesting outbreak of (Webster). 1899.	
p. 55	A9.6:20
grapevines in, black-rot and brown-rot of, extent, severity,	A6.3:11
and treatment of (Scribner). 1889. p. 76 great drought of 1845 in (Ford). p. 293	
Phenology in, note on, 1856–99 (Abbe). p. 156	A29.6:28
Road building in (Dodge). 1895. p. 16	A22.3:17
nell). p. 7	A22.4:33
San Jose scale in, use of lime, sulphur, salt, and resin washes for (Burgess). 1902. p. 33	A9.6:37
Thunderstorms in, during summer of 1892 (Strong). p. 51	A29.3:9
Western, climate of, 1868-70. p. 198.	A27.9:9
See also Cincinnati — Cleveland — Columbus — Lake County — Lake Erie College, Painesville — Madison County — Mont-	
gomery County.	
Ohio Agricultural Experiment Station, insectary and office methods used at (Webster). 1899. p. 46	A9.6:20
Ohio River and tributaries in periods of low water, importance of	
water-stage forecasts of (Smyth). 1902. p. 146	A29.3:31
Oil emulsions, simple device for preparation of (Morgan). 1896.	
	A9.6:6
p. 93. Oil of peppermint, account of. 1884. No. 9, p. 28. Oil-producing seeds (Hicks). 1895. p. 185.	A1.10:895
production (	

	Classification 1
Oils and fats: Edible, not including dairy products, methods for analysis of	<b>1</b>
(Tolman). 1901	A7.2:Oi5
(Tolman). 1901	A7.3:65
Specific gravity of, at temperature of boiling water, determination	A7 2.00
of (Ewell). 1901. p. 119	A7.3:02
Oklahoma:	
Cattle, quarantine line for, order modifying—	
Apr. 26, 1897	A4.5:3
Dec. 20, 1898. p. 2	A4.5:25-29
Dec. 19, 1899. p. 6	
Dec. 14, 1900. p. 6	A4.5:80-87
Jan. 11, 1902. p. 8	
Frosts in, dates of first killing (Abbe). p. 328	A29.6:22
Plants of, native and of adjacent districts, observations on,	
(Carleton). 1892. p. 220	A6.5:1
Wind-roses for; notes on (Abbe). 1891–99. p. 21	A 29.6:23
See also Washita County.	A28.0.20
Olds, Henry Worthington. See, as joint author, Palmer, Theodore	i 1
Sherman.	A 90 0-11 1
O'Leary, T. S. Barometer at sea. 1894. p. 167	A29.3:11 ·
Same (Pearson). 1900–1901. p. 398	A4.1:901
Oleomargarine:	
Analysis of, method for (Morse and Burton). 1890. p. 99	
France (Tourgée). p. 513	A4.1:900
1901	A1.9:131
Ingredients of (Wilson). p. 513	
Legislation relating to. 1886. p. 195	
Statistics of (Pearson). p. 287. same, 1900 and 1901 (Pearson). p. 398.	A4.1:901
Oleomargarine cheese. 1875. p. 459	A27.9:13
Olive:	44.4.000
Cultivation of in United States. p. 367same (Pierce). 1896. p. 371	A1.1:877
Culture and uses of (Smith and Langworthy). 1900. p. 11	A1.9:122
Industry (Cooper). 1892. p. 130	A1.8:20
Tuberculosis of (Pierce). 1891. p. 148	A28.5:6   A10.2:20
Oliver, George W. Pecan, budding the. 1902	
Bluff, Ark. 1902	
Olshausen, B. A. See, as joint author, Jensen, Charles A.	
Omaha, Nebr.: Convention of Weather Bureau officials, notes on (Abbe). 1898.	
pp. 213. 412	A29.6:26
Experiment station veterinarians, second annual meeting, 1898,	
proceedings of. 1898	A4.3:22
Industry Bureau at, p. 504	
Oncocnemis, new species of (Smith). 1888. p. 18.	
Onion:	
Blight and smut, microscopic investigations of (Taylor). 1872.	A 27 9-10
p. 449 Culture of (Watts). 1896	A1.9:39
General report on. p. 213. History, culture, and preservation of (Slade). p. 235.	A1.1:869
Methods of growing 1002 = 25	A1.1:865
Methods of growing. 1902. p. 25	\$
Agricultural statistics of. 1874. p. 462	A27.9:13
Agricultural statistics of. 1874. p. 462 Crop report, 1883–84. No. 11, p. 39 Crops and stock in. 1890. p. 484 Crops of. 1887. p. 453	A27.9:22
Crops and stock in: 1890. p. 484	A27.9:28
Farmers' institute work accomplished in (Creelman). 1902. p. 26.	A10.3:120
Francisco Proposition ( Contraction ( Contraction )	<del>-</del>

	Classification no.
Ontario—Continued	4100110
Farmers' institutes in (Creelman). 1902. p. 32	A10.3:110
Forestry in, address on (Phipps). p. 43	A1.7:5
Statistics of. 1893. p. 245	A27.9:31
"Ontario," merino ram, account of. p. 355	A1.1:866
Ontario, Oreg. Forage conditions between Winnemucca, Nev., and	A19.3:15
(Griffiths). 1902 Ontario, Lake, currents of, notes on (Abbe). 1894. p. 259	A29.6:21
Oology of some land birds of New England, as a means of identifying	
injurious or beneficial species (Samuels). p. 386	A1.1:864
Opium from North Carolina (McMurtrie). 1873. p. 499	A27.9:11
Opium poppy: Cultivation of, experiments in. p. 206	A1.1:870
Culture of, in Smyrna. p. 233.	A1.1:869
Ophthalmia. See Cattle.	
Optical phenomena:	
Notes on (Abbe)— 1895. pp. 14, 298	A29.6:23
1898. p. 569	
Washington, D. C., Feb. 13, 1895 (Abbe). p. 56	A29.6:23
Opuntia, North American species of, preliminary revision of (Coul-	1050
ter). 1896. p. 355	A6.5:3
Cultivation and consumption of, facts regarding. p. 561	A1.1:877
Culture of (Redden). p. 147.  Fertilization of soil as affecting, in health and disease (Webber).	A1.1:867
Fertilization of soil as affecting, in health and disease (Webber).	41 10 004
1894. p. 193. Florida, diseases of (Underwood). 1891. p. 27.	A1.10:894 A28.5:7
Fluted scale of, and its natural enemies in Australia (Koebele).	A20.0.1
1890	A9.3:21
Insects affecting, with practical suggestions for their control or	1000
extermination (Hubbard). 1885	A9.2:Or1
upon (Branner). 1884. p. 63	A9.3:4
Insects injuriously affecting orange tree, experiments with kero-	
sene upon	A9.3:1
Insects of, miscellaneous notes on (Hubbard). 1883. p. 9  Mite of, six-spotted (Riley). 1890. p. 225	A9.3:1 A9.7:2
Propagating other citrus fruits and, methods of (Webber). 1896.	A. 7. 2
p. 471	A1.10:896
Root-knot disease of, in Florida, due to work of Anguillula	10.000
(Neal). 1889 Rust of—	A9.3:20
microscopic observations of (Taylor). 1873. p. 588	A27.9:11
report of. (Hubbard). p. 361	A1.1:884
Scale-insects of—	1001
experiments upon (Voyle). 1883. p. 19same (Neal). 1883. p. 31	A9.3:1 A9.3:1
in California, and particularly icerya or fluted scale, alias white	A8.3.1
scale, alias cottony cushion-scale, etc., (Riley). 1887. p. 9.	A9.3:15
in Florida, effects of cold upon (Voyle). 1884. p. 70	A9.3:4
remedies and their application (Hubbard). p. 106	A9.1:882 A28.4:15
Sooty mold of, treatment for (Webber). 1895	A28.3:13
Various stocks for, relative merit of, with notes on mal di goma	
and mutual influence of stock and scion (King). 1891	A20.3:4
See also Aleyrodes citri — Morelos orange fruit-worm — Osage	
orange. Orange sorghum cane, cultivation and manipulation of, communica-	
tion relative to (Nicol). 1882. p. 122	A1.8:22
	A1.1:886
Same. p. 129 Orchard insecticide work in Illinois, report on (Forbes). 1901.	A28.1:886
n. 172	A10.3:99
p. 172 Orchard-spraying outfit, cheap, note on. 1895. p. 586	A1.10:895
Same. 1896. p. 623. Orchard trees, small, fumigator for. 1901. p. 21.	A1.10:896
Orchard trees, small, fumigator for. 1901. p. 21	A1.9:133

	Classification no
Orchards:	
Cover crops grown to protect trees and improve soil of. 1899.	
p. 12	A1.9:87
p. 12	
p. 16	A1.9:87
p. 16 Crops of, insects injurious to (Chittenden). 1899	A9.6:19
Deciduous, winter irrigation of. 1901. p. 12	A1.9:144
Enemies to, in Pacific Northwest (Piper). 1902	A1.9:153
How birds affect (Beal). 1900. p. 291	A1.10:900
Injuries to, by red-legged flea-beetle, in Maryland and Virginia	
(Schwarz). 1893. p. 334	A9.7:5
Inspection of (Craw). 1900. p. 87.	A10.3:76
same (Johnson). 1901. p. 163	A10.3:99
Irrigation methods in (McClatchie). 1900. p. 91	A10.3:76
Pear leaf-blight in, treatment of (Waite). 1891. p. 333	A28.5:7
Scale insects of (Howard). 1894. p. 249	A1.10:894
Shelter and protection. p. 147	A1.1:862
Oregon:	
Agricultural possibilities of. 1870. p. 229	A27.9:8
Agriculture and climate of. 1871. p. 129	A27.9:9
Chinook in, report of (Pague). 1896. p. 460	A29.6:24
Crops of, per acre. 1865. No. 8. p. 26	A27.9:3
Eastern, agricultural resources of (Ritz). 1869. p. 384 *	A27.9:7
Entomological work in, in 1893 (Koebele). p. 33	
Facts concerning (Drake). p. 584	A1.1:869
Farm resources and products of. 1868. p. 275	A27.9:6
Grasses of, plates and descriptions of (Vasey). 1892	
8ame	A6.3:13
Hail and thunder storms in, notes on (Abbe). 1901. p. 262	
Hop louse in, experiments with (Koebele). 1893. p. 12	A9.7:6
Irrigation in, in 1890 (Nimmo). p. 149	A15.2.P94 *
Klamath Indians of, plants used by, (Coville). 1897. p. 87	
Long-range weather forecasts in (Abbe). 1895. p. 423	A29.0:25
Road improvement in—	A 00 4.99
extract from governor's inaugural address (Geer). p. 8	
extract from governor's message (Lord). p. 7	A 90 R 95
same (Abbe). 1898. p. 253	
Sheep raising in. 1876. pp. 414, 479.	
Storm warnings on coast of, note on (Abbe). 1900. p. 211	A 29 R · 28
Weather of, and Bering Sea ice, notes on, 1890-99 (Abbe). pp. 163,	1120.0.20
206	A29.6:28
same (Beals). p. 201	
Weather forecasts for, notes on, 1895-99 (Abbe). p. 313	A 29.6:27
See also Cascade Mountains — Lane County — Ontario — Pacific	
Northwest — Portland.	
Organic matter in plants, origin and formation of (Dehérain).	
1898. p. 903	A10.6:9
Organic nitrogen. See Nitrogen.	
Orgyia leucostigma, parasites of, additional observations on (How-	
ard). 1897. p. 15	A9.6:9
Orient:	
Export of California butter to (Pearson). p. 266	A4.1:899
same (reprinted). 1900	A4.3:24
See also Typhoons.	
Oriole, Baltimore, and meadow lark (Beal). 1895. p. 419 Ormerod, Eleanor A. Insects, notes of season on. 1891. p. 36	A1.10:895
Ormerod, Eleanor A. Insects, notes of season on. 1891. p. 36	A9.7:4
Ornithologist and mammalogist, annual reports of	A5.1:
Ornithology:	A 1 1.000
Agricultural, report on (Michener). p. 287.	A1.1:863
Economic—  octablishing branch of circular relating to 1885	AQ 4.19
establishing branch of, circular relating to. 1885	A7.4:10
report on (Barrows). p. 193	A
same, p. 193	AU. 1.004 A 1 10.900
See also Birds.	AT. 10.000

, , , , , , , , , , , , , , , , , , ,	Classification mo
Ornithology and Mammalogy Division. See Biological Survey, Agriculture Department	A5.
Ornithology and mammalogy of New England, with reference to	
agricultural economy (Samuels). p. 265 Ortalid fly injuring growing cereals. 1895. p. 352	A1.1:863 A9.7:7
Orthezia insignis as garden pest (Cockerell). 1892. p. 89.	A9.7:5
Orthoptera:	
New species of, from Death Valley expedition (Bruner). 1893.	
p. 266	A5.5:7
Systematic position of, in relation to other orders of insects.  1883. p. 286	A8.1:3
Orton, W. A.:	
Plant diseases in United States. 1901. p. 668.	
Wilt disease of cotton and its control. 1900	
See also, as joint author, Webber, Herbert John.	A18.3.17
Osage hedges, uses of, etc. p. 245	A1.1:868
Osage orange as feed for silk-worms. 1870. p. 430	
Osage orange pyralid (Murtfeldt). 1893. p. 155	A9.7:5
Chinch bug observations in Iowa in 1894. 1894. p. 230	A9.7:7
Entomological work in agricultural experiment stations. 1895.	
p. 85	A10.3:24 ;
Entomology, economic, duty of. 1898. p. 6	
Hessian fly in United States. 1898.	A9.6:16
Insect occurrences, some notable, in Ohio for first half of 1902.	12010110
1902. p. 115.	A9.6:37
Insecticide experiments at Ames, Iowa. 1886. p. 23	A9.3:11
1890. p. 141.	A9.7:3
Insects affecting domestic animals. 1896	A9.6:5
Insects affecting grasses and forage plants, methods of treating.  1893. p. 71	A9.7:6
Iowa insects reported to Association of Economic Entomolgists—	A. 6. 7. 0
1892. p. 111	A9.7:5
1893. p. 193 1896. p. 78	A9.7:8
1896. p. 78	A9.6:6
1887. p. 154	A1.1:887
1889. p. 18	
1890. p. 57	
1892. p. 42	A9.3:30
1893. p. 46	A9.3:32
Kansas, trip to, to investigate reported damages from grasshop-	
pers— paper read before Association of Economic Entomologists.	
1891. p. 49	A9.7:4
report on. p. 58.	A9.3:27
Kerosene emulsions, experiments with. 1891. p. 63	A9.7:4 A9.7:3
Mallophaga and pediculidæ, parasitic habit in, origin and develop-	A0.7.0
ment of. 1891. p. 187.	A9.7:4
Missouri, northwest, grasshopper injuries in, report on trip to	A & 7.5
investigate. 1893. p. 323. Parasites of domestic animals, methods of attacking. 1893. p. 163.	A9.7:6
Pediculi and mallophaga affecting man and lower animals. 1891.	
Schizoneura panicola thos. and S. corni fab., identity of. 1889.	AQ 7.9
p. 108. Thripidæ, food habits of. 1888. p. 137.	A9.7:2 A9.7:1
Osborn, Herbert, and Gossard, H. A. Clover-seed caterpillar, report	
on. 1891. p. 56. Osborn, Herbert, and Sirrine, F. A. Aphididæ, notes on. 1893.	A9.7:4
p. 235	A9.7:5
p. 235 Osborn, J. M. Crops in Indiana and Illinois. 1891. p. 483	A27.9:29

Seborne, William McKinley. Animals, dead, disposition of, in London. p. 346		Classification no.
Secillation period of Lake Erie, note on (Abbe). 1900. p. 446		
Secillations of lake level, notes on (Abbe). 1900. p. 446   A29.6:28	London. p. 346	A4.1:899
Oscinide, reared at United States Department of Agriculture, habits of (Coquillett). 1898. p. 70	Oscillation period of Lake Erie, note on (Harris). 1902. p. 312	A29.6:30 A 90 R 98
of (Coquillett). 1898. p. 70		A20.0.20
Natural history of Queen Charlotte Islands, British Columbia, and Cook Inlet region, Alaska. 1901		A9.6:10
and Cook Inlet region, Alaska. 1901  Pocket mice of genus Perognathus, revision of. 1900.  Yukon region, mammals of. 1900. p. 21  Yukon River region, general account of. 1899. p. 7  A5.5:19  Noier culture (Simpeon). 1898.  Culture and economic importance of. p. 254  Notes on (Watts). 1873. p. 419  Oster willow:  Culture and economic importance of. p. 254  Notes on (Watts). 1873. p. 419  Ostermalicai or creeps. See Cattle.  Osteoporosis. See Horses.  Ostrich farming in America (Duncan). p. 685  Ostrich farming in America (Duncan). p. 685  Ottis, D. H. See, as joint author, Cottrell, H. M.  Ottawa, Illinois, swine plague at (Dyer). 1879. p. 156  Ottawa, Kans., diffusion and carbonatation at, experiments with  (Wiley). 1885.  Outram, Thomas S.:  Washouts, floods, cold waves, and heavy snowfalls, warnings of, for benefit of transportation companies. 1899. p. 38  Weather Bureau stations, is exposure at, satisfactory for all instruments? 1902. p. 216  Overflow lands. See Swamp and overflow land.  Ovine caseous lymph adentits, nature, cause, and economic importance of (Norgaard and Mohler). p. 638  Owen, D. A. Stomata, strange developments of, on Carya alba caused by Phylloxera. 1892. p. 327  Owen, Richard. Industrial colleges; general plan of buildings, with necessary aids to instruction in each department of education. 1894  Owens, James E. State aid to road construction in New Jersey. 1901. p. 22  Owlic acid, action of, upon phosphates, silicates, and soil (Kastle and others). 1894. p. 53.  Oxeye daisy, a beautiful flower and a pernicious weed (Beal). 1899. p. 15.  Pachybasium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 75  Pachybasium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 75  Pachybasium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 75  Pachybasium, attendant, Minnesota species of, note on (MacMillan). 1892. p. 15.  Pachybasium, attendant, Minnesota species of, note on (MacMillan). 1899. p. 15.  Pachybasium, attendant, Minnesota species of, n		
Pocket mice of genus Percognathus, revision of. 1900.   A5.5:18		AE E.01
Yukon region, mammals of. 1900. p. 21	Pocket mice of genus Perconathus, revision of 1900	A5.5:21 A5.5:18
Yukon River region, general account of. 1899. p. 7         A5.5:19           Osier culture (Simpeon). 1898.         A13.3:19           Osier willow:         Culture and economic importance of. p. 254         A1.3:3:19           Notes on (Watts). 1873. p. 419         A27.9:11           Osteomalacia or creeps. See Cattle.         A27.9:11           Ottamal See Horses.         A31.1:888           Outland See Manal Cattle See See See See See See See See See S	Yukon region, mammals of. 1900. p. 21	A5.5:19
Osier willow:         Culture and economic importance of. p. 254         A1.1:873           Notes on (Watts).         1873. p. 419         A27.9:11           Osteomalacia or creeps.         See Cattle.         A27.9:11           Osteoporosis.         See Horses.         A1.1:888           Ottis, D. H.         See, as joint author, Cottrell, H. M.         A1.6:12           Ottawa, Kans., diffusion and carbonatation at, experiments with (Wiley).         A7.3:6           Ottawa, Kans., diffusion and carbonatation at, experiments with (Wiley).         A7.3:6           Ottawa, Kans., diffusion and carbonatation at, experiments with (Wiley).         A7.3:6           Ottawa, Kans., diffusion and carbonatation at, experiments with (Wiley).         A7.3:6           Ottawa, Kans., diffusion and carbonatation at, experiments with (Wiley).         A29.3:24           Accompany of the benefit of transportation companies.         A89. p. 38           Outram. Thomas 8.         A29.3:24           Weather Bureau stations, is exposure at, satisfactory for all instruments?         A29.3:31           Overflow lands.         See Swamp and overflow land.         A29.3:31           Overflow lands.         See Swamp and overflow land.         A4.1:899           Over, Oxer, Richard.         A4.1:899         A4.1:899           Owen, D. A.         Stomata, strange developments of, on Car	Yukon River region, general account of. 1899. p. 7	A5.5:19
Culture and economic importance of. p. 254		A13.3:19
Notes on (Watts). 1873. p. 419.   A27.9:11	•	A1 1-873
Osteoporosis. See Horses. Ostrich farming in America (Duncan). p. 685	Notes on (Watts). 1873. p. 419	A27.9:11
Otts, D. H. See, as joint author, Cottrell, H. M. Ottawa, Illinois, swine plague at (Dyer). 1879. p. 156	Osteomalacia or creeps. See Cattle.	
Ottawa, Illinois, swine plague at (Dyer). 1879. p. 156		411000
Ottawa, Illinois, swine plague at (Dyer). 1879. p. 156		A1.1:888
Ottawa, Kans., diffusion and carbonatation at, experiments with (Wiley). 1885.  Outram, Thomas S.:  Washouts, floods, cold waves, and heavy snowfalls, warnings of, for benefit of transportation companies. 1899. p. 38.  Weather Bureau stations, is exposure at, satisfactory for all instruments? 1902. p. 216.  Overflow lands. See Swamp and overflow land.  Ovine caseous lymph adenitis, nature, cause, and economic importance of (Norgaard and Mohler). p. 638.  Owen, D. A. Stomata, strange developments of, on Carya albacaused by Phylloxera. 1892. p. 327.  Owen, Richard. Industrial colleges; general plan of buildings, with necessary aids to instruction in each department of education. 1864.  Owens, James E. State aid to road construction in New Jersey. 1901. p. 22.  Owl:  Common screech, report on (Fisher). p. 372.  Same, p. 372.  Short-eared, special report on (Fisher). p. 496.  See also Hawks and Owls.  Ox warble:  Circular relative to (Marlatt). 1892. p. 302.  Oxalic acid, action of, upon phosphates, silicates, and soil (Kastle and others). 1894. p. 53.  Pachybasium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 75  Pachybasium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 75  Pachybasium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 75  Pachybasium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 75  Pachybasium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 75  Pachybasium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 75  Pachybasium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 75  Pachybasium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 75  Pachybasium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 75  Pachybasium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 75  Pachybasium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 75  Pachybasium, attendant, Minnesota species of, note on (MacMillan). 1893. p. 265  A1.1:867  A28.5:6	Ottawa, Illinois, swine plague at (Dver), 1879, p. 156	A1.6:12
Outram, Thomas 8.:  Washouts, floods, cold waves, and heavy snowfalls, warnings of, for benefit of transportation companies. 1899. p. 38	Ottawa, Kans., diffusion and carbonatation at, experiments with	
Washouts, floods, cold waves, and heavy snowfalls, warnings of, for benefit of transportation companies. 1899. p. 38  Weather Bureau stations, is exposure at, satisfactory for all instruments? 1902. p. 216  Overflow lands. See Swamp and overflow land.  Ovine caseous lymph adenitis, nature, cause, and economic importance of (Norgaard and Mohler). p. 638.  Owen, D. A. Stomata, strange developments of, on Carya alba caused by Phylloxera. 1892. p. 327  Owen, Richard. Industrial colleges; general plan of buildings, with necessary aids to instruction in each department of education. 1864.  Owens, James E. State aid to road construction in New Jersey. 1901. p. 22  Owl:  Common screech, report on (Fisher). p. 372		A7.3:6
for benefit of transportation companies. 1889. p. 38		
Weather Bureau stations, is exposure at, satisfactory for all instruments? 1902. p. 216  Overflow lands. See Swamp and overflow land.  Ovine caseous lymph adenitis, nature, cause, and economic importance of (Nörgaard and Mohler). p. 638  Owen, D. A. Stomata, strange developments of, on Carya alba caused by Phylloxera. 1892. p. 327  Owen, Richard. Industrial colleges; general plan of buildings, with necessary aids to instruction in each department of education. 1864  Owens, James E. State aid to road construction in New Jersey. 1901. p. 22  Owl:  Common screech, report on (Fisher). p. 372  Short-eared, special report on (Fisher). p. 496  See also Hawks and Owls.  Ox bot in United States (Riley). 1892. p. 302  Oxalic acid, action of, upon phosphates, silicates, and soil (Kastle and others). 1894. p. 53.  Oxeye daisy, a beautiful flower and a pernicious weed (Beal). 1899. p. 15  Pachybasium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 75  Pachyneuron, habits of (Howard). 1891. p. 218  Full growers on, irrigation practice among (Wickson). 1902. A1.8:20  Grasse and forage plant investigations on (Scribner). 1899. A5.5:1  A29.3:31  A29.7:4  A9.7:2  Inal 1:889  A21:889  A22.3:21  A23.3:24  A29.7:4  A22.3:25  A22.3:21  A29.7:4  A2.1:899  A25.3:4  A29.7:4  A25.1:889  A27.2:In2  A29.7:4  A28.5:6  A9.7:2  A28.5:6  A		A 29 3 · 24
instruments? 1902. p. 216 Overflow lands. See Swamp and overflow land. Ovine caseous lymph adenitis, nature, cause, and economic importance of (Nörgaard and Mohler). p. 638 Owen, D. A. Stomata, strange developments of, on Carya alba caused by Phylloxera. 1892. p. 327 Owen, Richard. Industrial colleges; general plan of buildings, with necessary aids to instruction in each department of education. 1864.  Owens, James E. State aid to road construction in New Jersey. 1901. p. 22 Owl: Common screech, report on (Fisher). p. 372 Same, p. 372 Same, p. 496 See also Hawks and Owls. Ox bot in United States (Riley). 1892. p. 302 Ox warble: Circular relative to (Marlatt). 1897 Report on. 1889. p. 172 Oxalic acid, action of, upon phosphates, silicates, and soil (Kastle and others). 1894. p. 53. Oxeye daisy, a beautiful flower and a pernicious weed (Beal). 1899. p. 15 Pachybesium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 75 Pachybesium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 75 Pachybesium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 75 Pachybesium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 75 Pachybesium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 75 Pachybesium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 218 Pachybesium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 25 Pachybesium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 25 Pachybesium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 25 Pachybesium, attendant, Minnesota species of, note on (MacMillan). 1896. p. 55 Pachybesium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 218 Pachybesium, attendant, Minnesota species of, note on (MacMillan). 1896. p. 25 Pachybesium, attendant, Minnesota species of, note on (MacMillan). 1896. p. 25 Pachybesium, attendant, Minnesota species of, note on (MacMillan). 1896. p. 25 Pachybesium, attendant, Minnesota species of, note on (MacMillan). 1896.	Weather Bureau stations, is exposure at, satisfactory for all	1120.0.22
Ovine caseous lymph adenitis, nature, cause, and economic importance of (Norgaard and Mohler). p. 638  Owen, D. A. Stomata, strange developments of, on Carya alba caused by Phylloxera. 1892. p. 327  Owen, Richard. Industrial colleges; general plan of buildings, with necessary aids to instruction in each department of education. 1864.  Owens, James E. State aid to road construction in New Jersey. 1901. p. 22  Owl:  Common screech, report on (Fisher). p. 372	instruments? 1902. p. 216	A29.3:31
tance of (Norgaard and Mohler). p. 638	Overflow lands. See Swamp and overflow land.	
Owen, D. A. Stomata, strange developments of, on Carya alba caused by Phylloxera. 1892. p. 327  Owen, Richard. Industrial colleges; general plan of buildings, with necessary aids to instruction in each department of education. 1864.  Owens, James E. State aid to road construction in New Jersey. 1901. p. 22.  Owl:  Common screech, report on (Fisher). p. 372.  Same, p. 372.  Short-eared, special report on (Fisher). p. 496.  Seame, p. 496.  Ox bot in United States (Riley). 1892. p. 302.  Ox warble:  Circular relative to (Marlatt). 1897.  Report on. 1889. p. 172.  Oxalic acid, action of, upon phosphates, silicates, and soil (Kastle and others). 1894. p. 53.  Oxeye daisy, a beautiful flower and a pernicious weed (Beal). 1899. p. 15.  Pachybasium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 75.  Pachyneuron, habits of (Howard). 1891. p. 218.  Cimate of (Merrick). p. 280  Evotomys from, description of (Merriam). 1890. p. 25.  Field crops and animal industries of (Jones). 1892. p. 59.  A1.1:867  A28.5:6  A27.2:In2  A27.2:In2  A27.2:In2  A27.2:In2  A22.3:21  A22.3:21  A27.2:In2  A28.5:1889  A27.2:In2  A28.5:1889  A27.2:In2  A28.5:1889  A3.1:889  A3.1:889  A3.1:889  A3.1:889  A3.1:889  A3.1:889  A3.6:5:1		A 4 1 · 800
Caused by Phylloxers. 1892. p. 327  Owen, Richard. Industrial colleges; general plan of buildings, with necessary aids to instruction in each department of education. 1864.  Owens, James E. State aid to road construction in New Jersey. 1901. p. 22  Owl:  Common screech, report on (Fisher). p. 372. A22.3:21  Owl:  Common screech, report on (Fisher). p. 496. A5.1:889  Short-eared, special report on (Fisher). p. 496. A5.1:888  See also Hawks and Owls.  Ox bot in United States (Riley). 1892. p. 302. A9.7:4  Ox warble:  Circular relative to (Marlatt). 1897. A9.5:25  Report on. 1889. p. 172  Oxalic acid, action of, upon phosphates, silicates, and soil (Kastle and others). 1894. p. 53.  Oxeye daisy, a beautiful flower and a pernicious weed (Beal). 1899. p. 15  Pachyneuron, habits of (Howard). 1891. p. 218  Pacific coast:  Climate of (Merrick). p. 280  Climate of (Merrick). p. 280  Evotomys from, description of (Merriam). 1890. p. 25  Field crops and animal industries of (Jones). 1892. p. 59. A5.5:4  Field crops and animal industries of (Jones). 1892. p. 59. A1.8:20  Fruit growers on, irrigation practice among (Wickson). 1902. A10.3:108  Grape diseases on (Pierce). 1895. A3.4:22  Grasses, notes on some (Vasey). 1893. p. 265. A6.5:1		A4.1.000
necessary aids to instruction in each department of education. 1864.  Owens, James E. State aid to road construction in New Jersey. 1901. p. 22	caused by Phylloxera. 1892. p. 327	A9.7:4
Owens, James E. State aid to road construction in New Jersey.  1901. p. 22	Owen, Richard. Industrial colleges; general plan of buildings, with	`
Owens, James E. State aid to road construction in New Jersey.  1901. p. 22		497 9.In9
1901. p. 22  Common screech, report on (Fisher). p. 372		A21.2.1112
Common screech, report on (Fisher). p. 372	1901. p. 22	A22.3:21
Same, p. 372 Short-eared, special report on (Fisher). p. 496 Same, p. 496 See also Hawks and Owls. Ox bot in United States (Riley). 1892. p. 302 Circular relative to (Marlatt). 1897 Report on. 1889. p. 172 Oxalic acid, action of, upon phosphates, silicates, and soil (Kastle and others). 1894. p. 53 Oxeye daisy, a beautiful flower and a pernicious weed (Beal). 1899. p. 15 Pachybasium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 75 Pachybasium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 75 Pacific coast: Climate of (Merrick). p. 280 Evotomys from, description of (Merriam). 1890. p. 25 Fruit growers on, irrigation practice among (Wickson). 1902 Grape diseases on (Pierce). 1895 Grape diseases on (Pierce). 1895 Graps and forage plant investigations on (Scribner). 1899 A3.4:22 Grasses, notes on some (Vasey). 1893. p. 265 A1.1:867 A5.1:888 A5.1:888 A5.1:888 A9.7:4  A9.7:4  A9.7:4  A9.7:4  A9.7:2  A9.7:2  A9.7:2  A7.3:43		
Short-eared, special report on (Fisher). p. 496	Common screech, report on (Fisher). p. 372	A1.1:889
Same, p. 496  See also Hawks and Owls.  Ox bot in United States (Riley). 1892. p. 302.  Ox warble:  Circular relative to (Marlatt). 1897.  Report on. 1889. p. 172  Oxalic acid, action of, upon phosphates, silicates, and soil (Kastle and others). 1894. p. 53.  Oxeye daisy, a beautiful flower and a pernicious weed (Beal). 1899.  p. 15  Pachybasium, attendant, Minnesota species of, note on (MacMillan).  1891. p. 75  Pachyneuron, habits of (Howard). 1891. p. 218  Pacific coast:  Climate of (Merrick). p. 280  Evotomys from, description of (Merriam). 1890. p. 25  Fruit growers on, irrigation practice among (Wickson). 1902.  Fruit growers on, irrigation practice among (Wickson). 1902.  Grass and forage plant investigations on (Scribner). 1899.  Grasses, notes on some (Vasey). 1893. p. 265  A9.7:4  A9.5:25  A9.7:2  A7.3:43  A1.9:103  A1.9:103  A1.1:867  A5.5:4  A1.1:867  A5.5:4  A1.9:30  A10.3:108  A1.9:30  A3.4:22  Grasses, notes on some (Vasey). 1893. p. 265	Short-eared, special report on (Fisher), p. 496	A1.1:888
Ox bot in United States (Riley). 1892. p. 302. A9.7:4  Ox warble: Circular relative to (Marlatt). 1897. A9.5:25 Report on. 1889. p. 172. A9.7:2  Oxalic acid, action of, upon phosphates, silicates, and soil (Kastle and others). 1894. p. 53. A7.3:43  Oxeye daisy, a beautiful flower and a pernicious weed (Beal). 1899. p. 15. A1.9:103  Pachybasium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 75. A28.5:6  Pachyneuron, habits of (Howard). 1891. p. 218. A9.7:3  Pacific coast: Climate of (Merrick). p. 280. A1.1:867  Evotomys from, description of (Merriam). 1890. p. 25. A5.5:4  Field crops and animal industries of (Jones). 1892. p. 59. A1.8:20  Fruit growers on, irrigation practice among (Wickson). 1902. A10.3:108  Grape diseases on (Pierce). 1895. A1.9:30  Grass and forage plant investigations on (Scribner). 1899. A3.4:22  Grasses, notes on some (Vasey). 1893. p. 265.	same, p. 496	
Ox warble: Circular relative to (Marlatt). 1897		A O M A
Circular relative to (Marlatt). 1897		A9.7:4
Report on. 1889. p. 172  Oxalic acid, action of, upon phosphates, silicates, and soil (Kastle and others). 1894. p. 53  Oxeye daisy, a beautiful flower and a pernicious weed (Beal). 1899. p. 15  Pachybasium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 75  Pachyneuron, habits of (Howard). 1891. p. 218  Pacific coast:  Climate of (Merrick). p. 280  Evotomys from, description of (Merriam). 1890. p. 25  Field crops and animal industries of (Jones). 1892. p. 59  Fruit growers on, irrigation practice among (Wickson). 1902  Grass and forage plant investigations on (Scribner). 1899. A3.4:22  Grasses, notes on some (Vasey). 1893. p. 265  A7.3:43  A7.3:43  A7.3:43  A7.3:43  A7.3:43  A1.9:103  A1.9:103  A28.5:6  A9.7:2  A1.9:103  A28.5:6  A9.7:2  A1.9:103		A9.5:25
Oxalic acid, action of, upon phosphates, silicates, and soil (Kastle and others). 1894. p. 53	Report on. 1889. p. 172	
Oxeye daisy, a beautiful flower and a pernicious weed (Beal). 1899. p. 15  Pachybasium, attendant, Minnesota species of, note on (MacMillan). 1891. p. 75  Pachyneuron, habits of (Howard). 1891. p. 218  Pacific coast: Climate of (Merrick). p. 280  Evotomys from, description of (Merriam). 1890. p. 25  Field crops and animal industries of (Jones). 1892. p. 59  Fruit growers on, irrigation practice among (Wickson). 1902  A1.8:20  A1.8:20  A1.9:103  A28.5:6  A1.1:867  A5.5:4  A1.8:20  A1.8:20  A1.9:30  A1.8:20  A1.9:30  A1.8:20  A1.9:30  A1.9:30  A1.9:30  A3.4:22  Grasses, notes on some (Vasey). 1893. p. 265	Oxalic acid, action of, upon phosphates, silicates, and soil (Kastle	A 77 00 400
Pachybasium, attendant, Minnesota species of, note on (MacMillan).  1891. p. 75	Over daigy a beautiful flower and a permissions wood (Real) 1800	A7.3:43
Pachybasium, attendant, Minnesota species of, note on (MacMillan).  1891. p. 75		A1.9:103
Pachyneuron, habits of (Howard). 1891. p. 218		
Pacific coast: Climate of (Merrick). p. 280	1891. p. 75	1
Climate of (Merrick). p. 280	Pacific coast:	A9.7:3
Grape diseases on (Pierce). 1895	Climate of (Merrick). p. 280	A1.1:867
Grape diseases on (Pierce). 1895	Evotomys from, description of (Merriam). 1890. p. 25	A5.5:4
Grass and forage plant investigations on (Scribner). 1899	Field crops and animal industries of (Jones). 1892. p. 59	A1.8:20
Grasses, notes on some (Vasey), 1893, p. 265, $A6.5:1$	Grane diseases on (Pierce) 1905	A10.3:108
Grasses, notes on some (Vasey), 1893, p. 265, $A6.5:1$	Grass and forage plant investigations on (Scribner). 1899	A3.4:22
Hop production of. 1889. p. 410	Grasses, notes on some (Vasey), 1893, p. 265	A6.5:1
Low areas on our (ADDe). 1896. p. 418	Hop production of. 1889. p. 410	A27.9:27
	Low areas on our (ADDe). 1896. p. 418	AZ9.6:24

index	Classification no.
Pacific coast—Continued	Classiff and set
North—	
high areas of, in September, October, and November (Garriott).	
1895. p. 249 weather map of, explanation of (Moore)	A29.6:23
weather map of, explanation of (Moore)	A29.2:N81
States of, seasonal forecasts for, long range (Ashley). 1901. p. 16. Weather on, of August, notes on (Abbe). 1899. p. 421	
Weather service on, possibilities of (Hammon). 1899. p. 56	
same (Pague). 1899. p. 63.	A29.3:24
same (Pague). 1899. p. 63. Wheat growing and general agricultural conditions in (Holmes).	•
1901	A27.8:20
Wheat ports on (Holmes). 1901. p. 567	A1.10:901
Work of Division of Entomology (Henry). 1889. p. 141	A9.7:2
names of States.	
Pacific coast division of Canadian meteorological service, notes on	
(Abbe). 1899. pp. 102, 212	A29.6:27
Pacific Northwest:	A 1 0.159
Orchard enemies in (Piper). 1902	A1.9:153
[river] from melting snow in mountains (Pague). 1899. p. 252.	A29.6:27
Prune culture in (Lake). p. 41	
same. reprinted	A20.4:2
Prunes and prune culture in, existing conditions, etc., 1901 (Lake).	A20.3:10
Sheep husbandry in (Withcombe). 1900. p. 5	A1.9:117
Pacific Ocean:	
Date line in (Page). 1902. p. 363	A29.6:30
Storm centers in, notes on (Abbe). 1899. p. 114	A29.6:27
Pacific slope:	
Arid regions of, climatic and agricultural features of, etc. (Hilgard	A 1 0.00
and others). 1882	A1.8:20 A1.8:20
Field cultures on, miscellaneous (Hilgard). 1892. p. 79	A1.8:20
Grasses of, including Alaska and adjacent islands. 2 pts. (Vasey.).	A6.3:13
same, reissued. 1893	A6.2:
North—	
weather forecasting and weather types on (Pague and Bland- ford). 1897	A29.2:P11
weather types of (Pague). 1895. p. 417	A29.6.23
See also — Pacific Northwest — Pacific States — and names of States.	
Pacific States:	
Agriculture of Territories and. 1865. No. 5. p. 18; No. 10. p. 24.	
Crops in, 1864. No. 5. p. 19 Textile fibers of (Flint). p. 471	A27.9:2 A1.1:864
See also—Pacific Northwest—Pacific slope—and names of States.	A1.1.001
Packard, Alpheus Spring:	
Bucculatrix canadensisella, occurrence of, on birch in Rhode	
Island. 1892. p. 14	A9.7:5
Calothysanis amaturaria, a geometrid moth, life history of.	A9.7:4
1892. p. 382 Evergreen and other forest trees, causes of destruction of, in	A0.1.4
northern New England and New York—	
[1st] report. 1883. p. 138.	A1.1:883
same, p. 138 2d report. 1884. p. 374	A9.1:883
2d report. 1884. p. 374	A1.1:884
3d report, in northern New England. p. 319	A9 3:12
same, additions. p. 17. 4th report. 1886. p. 20. 5th report. 1887. Forest-tree insects, notes on. 1883. p. 24.	A9.3:18
5th report. 1887	A8.1:4
Forest-tree insects, notes on. 1883. p. 24	A9.3:3
Hen flea (Sarcopsylla gallinacea), occurrence of, in Florida.	
1894. p. 23 Insects injurious to forest trees in 1893, report on. p. 53	AU 2.29
Packard, Alpheus Spring, entomological writings of (Henshaw)	A9.3:16
Pade, L. Milk, bicarbonate of soda in, detection of. 1889. p. 170.	
Page, E. D. See Graves, Henry S.	

	Classification no.
Page, J. W. Scuppernong wine, analysis of. 1868. p. 362	A27.9:6
Barograph on shipboard, report of. 1900. p. 590	A29.6:27
Date line in Pacific Ocean. 1902. p. 363	
Ocean currents. 1902. p. 397.	A29.6:30
Page, John R. Lands, worn-out, improvement of. 1883. p. 207 Page, John R., and Terrell, J. J. Glanders and farcy in horses.	
Page, Logan Waller. Macadam roads, selection of materials for.	A1.6:22
See also, as joint author, Ewell, Ervine Edgar.	A1.10:900
Page County, Iowa, hog cholera in, experiments in stamping out.  1889. p. 249  Pague, Bemer S.:	A4.1:898
Chinook winds in Oregon, report of. 1896. p. 460	A29.6:24
Lightning from cloudless sky. 1900. p. 429	A29.6:28
Long-range weather forecasts, report of. 1896. p. 166	A29.6:24
Oregon, seasonal forecasts for. 1897. p. 161	A29.6:25
Precipitation over Pacific Northwest and possibility of high water in Columbia river from melting snow in mountains. 1899.	
p. 252	A29.6:27
p. 170	A29.3:24
Weather Bureau instrument shelter. 1893. p. 27. Weather forecasts, long-range. Can they be made with suffi-	
cient precision to be of general utility? 1899. p. 46	A29.3:24
Weather service on Pacific coast, possibilities of. 1899. p. 63	A29.3:24
Weather types of North Pacific slope. 1895. p. 417 Pague, Bemer S., and Blandford, Samuel M. Weather forecasting	A29.6:23
and weather types on North Pacific slope. 1897	A29.2:P11
Palm. See Date palm.	•
Palm and palmetto weevils (Chittenden). 1902. p. 23	A9.6:38
Palmer, Theodore Sherman:	
Animals and birds, noxious, danger of introducing. 1898. p. 87. Birds and game, protection of, directory of State officials and or-	A1.10:898
ganizations for 1901	A5.4:33
same. 1902	A5.4:35
Birds and game in District of Columbia, laws for protection of.	AE 4.04
Birds other than game birds, legislation for protection of. 1900	A5.4:34 A5.3:12
Death Valley expedition, 1891, localities visited by, list of. 1893. p. 361	A5.5:7
Extermination of noxious animals by bounties. 1896. p. 55	A1.10:896
Jack rabbit of United States	A5.3:8
Ornithology, economic, in U.S., review of. 1899. p. 259	A1.10:899
See also, for report as acting Chief, Biological Survey, 1898-1901 Palmer, Theodore Sherman, and Olds, Henry Worthington:	A5.1
Game— information concerning seasons, shipment, and sale of. 1900	A5.4:31
transportation and sale of, laws regulating. 1900	
Game laws for 1901, digest of	
same, 1902 Palmer, W. S.:	
Meteorological data collected, use of. 1902. p. 178	A29.3:31
Meteorological observations, should not a book providing for per-	
manent record of, be furnished to section centers and voluntary stations? 1899. p. 122.	A29.3:24
tary stations? 1899. p. 122. Wyoming, water supply of, for season of 1900, as depending on snowfall. p. 498.	A29.6:28
Palms. See Cocoanut palms. Pammel, L. H.:	
Cucurbits, crossing of. 1893. p. 94. Fungous diseases of Iowa, new. 1891. p. 95.	A10.3:16
Fungous diseases of Iowa, new. 1891. p. 95	A28.5:7
Grasses and forage plants of Iowa, Nebraska, and Colorado. 1897.	A3.3:9

Index	Classification no
Pompas Thos	Classification no.
Pampas, The: Cattle farming in (Carrow), p. 486	A1.1:865
Cattle farming in (Carrow). p. 486. Sheep farming in (Carrow). p. 223.	A1.1:864
Pamperos and cyclonic storms, notes on (Abbe). 1899. p. 154	A29.6:27
Pan-American Exposition. See Buffalo, N. Y.	
Pan-American trade, 1890. p. 454	A27.9:28
Panama, Isthmus of, climatology of, including temperature, winds,	
barometric pressure, and precipitation (Abbot). 1899. pp. 198, 302	A29.6:27
Panama, meteorology of:	1120.0.21
Contributions to (Abbot). 1899. p. 7. Report of (Abbot). 1899. p. 463	A29.6:28
Report of (Abbot). 1899. p. 463	A29.6:27
Panchlora, further notes on (Riley). 1891. p. 119.	A9.7:4
Panicum nashianum, new variety of. p. 9	A3.4:Z/
Panicum nitidum, Panicum scoparium, and Panicum pubescens, notes on (Scribner and Merrill). 1900. p. 31	A3.3:24
Panicums:	2201012
American, in herbarium Berolinense and in herbarium of Willde-	
now (Holm). 1897. p. 17	A3.3:4
Three new species of, notes on (Scribner and Merrill). 1901.	40 4.0E
p. 3	A3.4:35
Agricultural education in Italy. 1893. p. 326.	A10.6:4
Italy, institutions for agricultural investigation in. 1893. p.	
233	A10.6:4
Paper. See Japanese paper — Maize-paper.	
Paper-making wasp, use of grape bags by (Murtfeldt). 1891. p.	107.4
Paramone	A9.7:4
Paraguay: Agriculture in. 1891. p. 610	A27.9:29
Butter in (Ruffin). p. 521	A4.1:898
Parasites:	
Cattle, sheep, and swine, compendium of, arranged according to	1.0.70
their hosts (Hassall). 1898. p. 137 Cotton stainer, supposed eggs of (Howard). 1889. p. 241	A4.3:19
Domestic animals, methods of attacking (Osborn). 1893. p. 163.	A9.7:1 A9.7:6
Economic value of (Smith). 1893. p. 142	A9.7:6
Economic value of (Smith). 1893. p. 142.  External spider (Howard). 1888. pp. 42, 106.  Fungous, on Aleyrodes citri, preliminary notice of (Webber).	A9.7:1
Fungous, on Aleyrodes citri, preliminary notice of (Webber).	
1891. p. 363  Grain plant-louse, new (Howard). 1890. p. 246.	A28.5:7
Grain plant-louse, new (Howard). 1890. p. 246	A9.7:2
Hymenopterous— host relations of (Howard). 1891. p. 277	A9.7:3
of California red scale (Howard). 1894. p. 227	A9.7:6
of Coleoptera, observations on some (Chittenden). 1893.	
p. 247	A9.7:5
Icerya— now report of (Howard) 1802 p 278	AQ 7.4
new, report of (Howard). 1892. p. 378three new (Howard). 1889. p. 268	
Injurious, report of (Howard), 1895, p. 402	A9.7:7
Lady-bird, report on (Riley). 1888. p. 101	A9.7:1
Mytilaspis pomorum, new (Howard). 1894. p. 256	A9.7:7
Note on (Howard). 1891. p. 48.	A9.7:4
Orgyia leucostigma, additional observations on (Howard). 1897.	A9.6:9
p. 15	A9.7:7
Spider, new, report of (Ashmead). 1894. p. 259	A9.7:6
Spider-egg, two (Howard). 1890. pp. 269, 359	A9.7:2
same (Howard). 1891. p. 202	A9.7:4
See also Animal parasites—Apheleninæ—Aphelinus fascipen-	
nis — Australian parasite — Cercospora circumscissa — Ces- todes — Chalcididæ — Chicken-tick — Coccidia — Dipterous	
parasite — Egyptian strongyle — Elasmus — Insects — Joint-	
worm — Mallophaga and pediculide — Mantis egg-parasites —	
Megilla parasite — Pachyneuron — Phytoptus distortions —	
Pimpla conquisitor — Pine leaf rust — Platypsyllus — Pseudo-	
manas hyacinthi — Roundworms — Sarcaptidæ — Sarcospo-	

	Classification n
Parasites—Continued	
ridia — Sheep scab mite — Southern cattle ticks — Spider-egg	
parasites — Spider parasites — Sporozoon — Tachinidæ —	
Ticks — Trichina spiralis — Trypanosomiasis — Ugimyia seri-	i
carlæ — Vinegar eel.	
Parasitic bronchitis. See Bronchitis.	
Parasitic diseases. See Diseases of animals—Grape vine.	
Parasitic two-winged insects. See Tachinidæ.	
Parasitism:	
Among Sarcoptidæ, origin and development of (Garman). 1891.	40 7 4
p. 182	A9.7:4
Case of excessive (Howard). 1897. p. 62	A9.6:7
Host, color of, and its relation to (Stiles and Hassall). 1892.	
p. 265	A9.7:4
Spurious, due to partially digested bananas (Stiles and Hassall).	
1902. p. 56	A4.3:35
1902. p. 56  Parhelion, note on, of Jan. 27, 1895 (Abbe). p. 14	A29.6:23
Paris:	
American horses used by large horse companies in (Loncey).	
1898. p. 42	A1.2:H78
Butter and cheese markets (Ashby). p. 220	
Dead animals in, disposition of (Gowdy). p. 348	A 4 1 · 800
Egg market of (Ashby). p. 336	A4.1:899
	A4.1.000
Entomological exhibition at, Aug. and Sept., 1865 (Glover). p.	A11.00E
88	A1.1:865
Poultry markets of (Ashby). p. 341	A4.1:899
Ramie machine trials in, in 1889 (Dodge). 1892. p. 32	
same, 2d ed. p. 32	A11.5:1
Paris Exposition of 1867, report of committee on culture and prod-	
ucts of vine, made to U.S. Commissioners (Wilder and	
others). p. 163	A1.1:867
Paris Exposition of 1889, papers accompanying exhibit of Bureau of	
Animal Industry at. p. 359	A4.1:887-8
Paris Exposition, 1900:	
Agricultural experiment station veterinarians, exhibit at (Peters).	
1898. p. 22	A4.3:22
Agricultural experiment stations, collective exhibit at-	
catalogue of (Evans). 1900. p. 633	A10.3:80
committee report on preparation and care of—	
1898 (Harris). p. 43	A 10.3:49
1899 (Armsby). p. 30	A 10 3.85
1900 (Armsby). p. 20	A 10 3.78
1901 (Armsby). p. 23	
editorial on. 1901. p. 301	
Dairy awards for United States at. p. 734	
Dairy products at (Alvord). 1900. p. 599	
same. p. 194	A4.1:900
Meats and meat products at (Alvord). p. 223	A4.1:900
Weather Bureau at, notes on (Abbe). 1900. p. 445.	
World's exhibit of leaf tobacco at. p. 157	A1.10:900
Paris, International Congresses of Horticulture, Viticulture, and	
Agriculture, 1901 (Evans). p. 205	A10.6:12
Paris, International Industrial Fair, 1867, note on. No. 10. p. 20	A27.9:3
Paris, International Meteorological Conference, Sept., 1896, report	
on (Rotch). p. 365	A29.6:24
Same (Scott). 1896. p. 333	A29.6:24
Paris, International Meteorological Conference, Sept., 1896, responses	
to programme of questions proposed for discussion at	A29.2:P21
Paris, International Meteorological Congress, Sept., 1900, notes on	
(Abbe). pp. 19. 544	A29.6:28
(Abbe). pp. 19, 544	A29.6:29
Paris, Tenth International Congress of Hygiene and Demography,	
held August 10-16, 1900 (De Schweinitz). p. 260	A4.1:900
Paris, Thirteenth International Medical Congress, held August 4,	1 11.1.000
1900 (De Schweinitz). p. 254	A4.1:900
Paris green:	174.1.000
As protection against cotton insects (Glover). 1873. p. 572	A27.9:11
Protection against colour macre (Quover). 1019. h. 012	· 4141.0.11

Index	Classification no.
Paris green—Continued	CLESSINCESION RO.
Experience with (Cockerell). 1897. p. 25  Its use in agriculture (McMurtrie). 1874. p. 507	A9.6:9
Its use in agriculture (McMurtrie). 1874. p. 507	A27.9:12
Low-grade, use of, to fruit-growers (Wilcox). 1900. p. 14	A1.9:114
Notes on (Marlatt). 1895. p. 408 Poisonous effect of (McMurtrie). 1875. p. 231	A9.7:7 A97 9:13
Parker, S. J.:	1127.0.10
Grapes, native, improvement of, by seedlings and hybridization.	
p. 122	A1.1:864
Grapes, new varieties of. p. 194	A1.1:865
Parkinson, W. L. Sorghum-sugar industry at Fort Scott, Kans., in 1887. p. 226	A1.1:887
Same. 1887. p. 26	
Parry, C. C.:	
Botanical explorations in East Tennessee. 1870. p. 221	
Cinchona planting in Jamaica. 1871. p. 120	A27.9:9
1871. p. 23	A27.9:9
See also, for reports as Botanist, Botany Division, Agriculture	
Department, 1869–71	A6.1:
Parsnip web-worm, report on (Riley). 1888. p. 94.	A9.7:1
Same (Southwick). 1892. p. 106.  Parsons, E. M. Acid and alkaline solutions, standardization of,	A9.7:5
comparison of methods for. 1892. p. 80	A7.3:35
Parsons, George H. Climate of Colorado and its effect on trees.	
1888. p. 221	A13.3:2
Partridge, Edward A. Barometer, method of filling. 1896. p. 413.	A29.6:24
Parturition, diseases following, in cattle (Law). p. 235	A4.2:029
Passer montanus. See European tree sparrow.	
Pasteurization. See Milk.	
Pasteurized cream, restoring consistency of. 1898. p. 23	
Pastoral lands of America. p. 301  Pastoral resources of Montana (Anderson). p. 311	A1.1:870 A1 1.999
Same, p. 311	A6.1:888
Pastrana, Manuel E. Mexican climatological data, monthly notes	
on, Sept., 1899-Oct., 1902.  Pasture plants, our native (Scribner). 1900. p. 581.	A29.6:
Pasture plants, our native (Scribner). 1900. p. 581	A1.10:900
Pastures. See Cattle ranges of Southwest — Meadows and pastures. Patagonia, southern:	
Ferns from, collected by U. S. S. Albatross in 1887-91, list of	
(Eaton). 1892. p. 138.  Lichens from, collected by U.S.S. Albatross in 1887-91, list of	A6.5:1
Lichens from, collected by U.S.S. Albatross in 1887–91, list of	AQ 5.1
(Eckfeldt). 1892. p. 142. Liverworts from, collected by U. S. S. Albatross in 1887-91, list of	A6.5:1
(Evans). 1892. p. 140	A6.5:1
See also Fuegia and Patagonia.	
Patents:	A 1 7.000
Agricultural, of year 1869. p. 315	A1.1:809 A1.1:871
Fiber machinery and processes, list of, Jan., 1875, to Dec. 31,	24111.071
1879. p. 609	A1.1:879
Hydrocyanic-acid gas process declared invalid (Coquillett). 1894.	4022
p. 257. Metal railway track (Tratman). 1889. p. 36	A9.7:7
same (Tratman). 1890. p. 326.	A13.3:4
Pathogenic bacteria. See Bacteria — Milk and its products.	
Pathological conditions found in meat inspection (Salmon). p. 52	A4.1:900
Pathology of plants, lines of investigation that might be undertaken	A 10 8.7
by experiment stations (Galloway). 1897. p. 725	A10.6:7
Butter, renovated, report on identification of. 1902. p. 115	A7.3:67
Distilling flask, new, for use in Kjeldahl process. 1891. p. 142	
Fat acids, soluble and insoluble, notes on methods for. 1888.	
p. 25	A7.3:19

	Index
	Classification no.
Patrick, George Edward—Continued  Household tests for detection of oleomargarine and renovated but-	
ter. 1901	A1.9:131
Milk, composite, samples in laboratory. 1891. p. 26	A7.3:31
Milk test, standard, report on. 1891. p. 123	A10.5:3
Patrons of Husbandry:	A7.3:24
List of officers—	A 1 10.000
· 1898. p. 624	A1.10:898 A1.10:899
1900. p. 671	A1.10:900
1901. p. 637  Twenty-sixth annual meeting of, Concord, N. H., Nov., 1892.	A1.10:901
n. 386	A27.9:30
Patterson, F. W. Live-stock interests of Maryland. p. 254	A4.1:886
Same, p. 466.	A4.1:887-8
Patterson, Flora W. Fungi, economic and other, collection of, pre-	A 10 0 0
pared for distribution. 1902	A19.3:8
p. 150	A10.3:16
Patterson, J. K. Education at agricultural colleges, general drift of. 1901. p. 99	A10.3:99
Patterson, Robert F. Calcutta, hides and skins from, imports of.	A4.1:898
p. 523	A4.1:090
Address of, before good roads convention, at Winston-Salem, N. C.	
1902. p. 13	A22.3:23
North Carolina, farmers' institute work accomplished in. 1902.	
p. 40 Pattersonville, La. See Calumet plantation sugar experiment station.	A10.3:120
Patton, W. M.:	4.00.0.00
Highways, public, alignment of. 1902. p. 74.  Roads, location and construction of. 1902. p. 30	A22.3:23 A99 3:95
Patton, Wm. Hampton. Ephestia interpunctella zeller, notes upon.	A22.0.26
1890. p. 158	A9.7:3
1890. p. 158 Paular sheep. p. 354	A1.1:866
Paullin, C. O. Porto Rican hurricane of 1899. p. 443	A29.6:28
Paulsen, Adam. Denmark, climate of. 1896. p. 640	A29.3:11 <sup>3</sup>
Payne, Alban S. Swine-plague in Virginia. 1879. p. 165	A1.6:12
Pea. See Peas. Pea louge destructive new and important economic species of serve	
Pea louse, destructive, new and important economic species of genus Nectarophora (Johnson). 1899. p. 94	A 9 8.20
Pea and bean weevils, report of, 1892, p. 297	A9.7:4
Pea weevil:	1201112
Larval stage of, first. 1892. p. 392.	A9.7:4
Report of. 1892. p. 297.	A9.7:4
Peabody, Selim H. Agricultural institutions founded on Congressional grant of 1862, what work is legitimate to? 1882. p. 42.	A1.8:22
Peach blight:	
Note on (Smith). 1891. p. 36	A28.5:7
See also Peaches.	A28.5:5
Peach curculio, arsenical poisons for (Forbes). 1889. p. 3	A 9. 7 · 2
Peach leaf curl, its nature and treatment (Pierce). 1900	A28.3:20
Peach lecanium, report on (Pergande). 1898. p. 26	A9.6:18
Peach pest in Bermuda. 1890. p. 5.	A9.7:3
Peach rosette:	
Communicability of (Smith). 1891.	A28.3:1
Notes on (Smith). 1891, p. 226.  Peach yellows and (Smith). 1894.  Report on (Smith). 1891. p. 143.	AZO.0:/
Report on (Smith) 1891 n 143	A28.5.R
Peach rot and peach blight, report on (Smith) 1889 n. 123	A28.5:5
Peach-tree borer, circular relative to (Marlatt). 1896	A9.5:17
Peach rot and peach blight, report on (Smith). 1889. p. 123  Peach-tree borer, circular relative to (Marlatt). 1896  Peach-tree scale, new and destructive. 1894. p. 287	A9.7:6
Peach trees:	
Leaf curl of, letter of inquiry relative to (Willits). 1893	A28.4:13 A1.9:78

Index	Classification no.
Peach twig-borer:	
Important enemy of stone fruits (Marlatt). 1898	A1.9:80
Peach yellows:	A8.0.10
Communicability of (Smith). 1891	A28.3:1
Note on (Taylor). 1872. p. 387	A27.9:10 A1.9:17
Preliminary report on (Smith), 1888	A6.3:9
Prevention and cure of, experiments with fertilizers for, 1889–92.	
(Smith) Statements on. 1887. p. 372	A28.3:4 A27.9:25
What to do for? (Smith). 1891. p. 15	A28.5:6
Peaches:	
Blight or mildew of, sulphur for. 1867. p. 60	A27.9:5 A10.3:49
Culture of, notes on (Hale). p. 50.	A20.1:894
same, reprinted	A20.4:3
Different races of, report of progress by committee on cooperative work in testing. 1899. p. 129	A10.3:65
Field notes on, 1891 (Smith). 1891. p. 88	A28.5:7
Food value of (Langworthy). 1899. p. 22.	A1.9:105
Growing for market (Smith). 1895	A1.9:33 A9.7:2
New species of aphis injurious to, in Georgia, preliminary note	
on (Scott). 1902. p. 56	A9.6:31
Root-knot disease of, in Florida, due to work of Anguillula (Neal).	A1.1.000
Spotting of, report on (Smith). 1889. p. 32	A9.3:20
Peaches and other fruits in England	A28.5:5
Peanut oil-cake as food for animals. 1873. p. 445	A27.9:11
Peanuts:	A 07 O 10
Crop in Virginia. 1875. p. 512	A27.9:13 A1.1:868
Cultivation of. p. 220. Culture and uses (Handy). 1895	A1.9:25
Food for hogs (Duggar). p. 501	A4.1:898
Pear:	,
Aphids of (Sanderson). 1902. p. 123	
Commercial culture of (Waite). 1900. p. 369	A1.10:900 A1.1:869
Culture of, remarks on. p. 198.  Description of leading popular varieties. p. 163	A1.1:862
same (Elliott). p. 119. Summer, new variety of. 1867. p. 59.	A1.1:863
See also Le Conte pear.	A21.9.0
Pear blight:	4
Cause and prevention of (Waite). 1895. p. 295	A1.10:895 A1.1:886
same, p. 125	A28.1:886
Pear flowers, pollination of (Waite)	A28.3:5
Pear insect, new, report on. 1894. p. 258	A. 0. 1 . 1
Experiments in treatment of. 1889	A28.4:8
Treatment of, in orchard (Waite). 1891. p. 333	A28.5:7
Pear midge, habits of (Schmidberger). p. 286	A1.1:885
Pear midge, habits of (Schmidberger). p. 286  Pear scab, treatment of (Galloway). 1891. p. 11	A28.5:6
Pear slug, circular relative to (Marlatt). 1897	A9.5:26 A27.9:10
Pear-tree psylla:	
Circular relative to (Marlatt). 1895	A9.5:7
Report on. 1893. p. 226	A9.7:5
Report on. 1893. p. 226 same (Slingerland). 1892. p. 100	A9.7:5
Three, report on. 1891. p. 127	
(Waite). 1891. p. 264	A28.5:7

	Index Classification no.
Pearne, Thomas H. Foot-and-mouth disease, treatment for. 1873. p. 450	A27.9:11
Pearson, Alexander W.:	
Grape rot and grape mildew, remarks on. 1886. p. 54	A6.3:2
salts of copper, at Vineland, N. J., in 1887. p. 17	
same. 1888. p. 13 Plants, fungus diseases of. 1890. p. 41	A6.3:11
Pearson, Raymond Allen: Cheese, colored spots in. p. 229	A4.1:898
same	A4.4:24
Cows and cattle of foreign countries. 1896. p. 38.  Dairy industry and dairy markets of Porto Rico; with notes upon St. Thomas and Cuba. p. 306.	
Dairy laws, national and State, abstract of. p. 531	A4.1:897
same, compilation of. 1900	
Dairy utensils, care of. 1896. p. 431  Dairying in California and export of California butter to Orient.	A1.10:896
p. 266	A4.1:899
Milk, facts about. 1896	A1.9:42
Market milk, plan for its improvement. p. 158.  Milk, care of, on farm. 1897.	A4.1:900 A1.9:63
Oleomargarine, oleo oil, and filled cheese, statistics of, 1886–99.	
p. 287 same. 1900 and 1901. p. 398	A4.1:899 A4.1:901
Canadian field (Shaw). 1895. p. 223	A1.10:895 A1.10:898
See also Flat pea.  Peas, beans, and other legumes as food (Abel). 1900  Peat. See Muck.	A1.9:121
Pecan:	A19.3:30
Budding the (Oliver). 1902	A1.9:124
Pech, F. Sorghum, botanical history of. p. 299  Peck, C. H. Black knot of plum and cherry trees. p. 175	A1.1:865 A1.1:872
Peck, J. B. See, for report as Chief, Seed Division, Agriculture	
Department, 1890–92	A24.1
1902. p. 61 Pecos Valley, New Mexico—	A10.3:104
Irrigation in, use of water in (Reed). 1900. p. 85	A10.3:86
Soil survey in (Means and Gardner). 1900. p. 36	
Pediculi affecting man and lower animals (Osborn). 1891	A9.3:7
1891. p. 187.  Peffer — Horticulture in Wisconsin. 1882. p. 174	A9.7:4 A1.8:22
Pegomyia, beet-leaf, report on (Howard). 1895. p. 379. Pelee, Mount, Martinique, eruption of, noises attending (Abbe). 1902. p. 269	A9.7:7
Pemberton's method of phosphoric acid determination, comparison	A29.6:30
of, with official method by Francis Bergami (Kilgore). 1894.	A7.3:43
Pen, number of laying hens that may be profitably kept in one (Langworthy). 1900. p. 18	A1.9:114
Pendergast, W. W., address of, before Minnesota good roads convention, Jan., 1894. p. 7.	A22.3:2
Pennell, Arthur. Hygrometric observations, utility of. 1899. p. 162. Pennsylvania:	A29.3:24
Anthracite coal in, production of. 1820-72. p. 36	A27.9:11 A1.1:864
Barns of, description of (Watts). p. 289  Corn crop in, premium. 1870. p. 478  Farm resources and products of. 1868. p. 17	A27.9:8
Pleuro-pneumonia among cattle in (Gadsden). p. 47	A27.9:6 A1.1:881-2

	Classification no.
Pennsylvania—Continued	
Road system in (Hamilton). 1901. p. 25	A22.3:21
See also Lancaster — Lebanon — Philadelphia — Pittsburg. Pennsylvania Agricultural College, experiments with wheat at. 1873.	
p. 442	A27.9:11
Penny, Charles L. See, as joint author, Sanderson, E. Dwight.	
Pennywitt, Henry. Seasons, warm and cold, relative length of. 1901. p. 55	A29.6:29
Pens, disinfection of, by fire (Stiles). 1902. p. 15.	A4.3:35
Pensacola, Fla., old thermometer record at (Abbe). 1901. p. 177	A29.6:29
Pentaglucoses in feeding stuffs, notes on occurrence and quantitative	A7.3:28
estimation of (Stone). 1890. p. 125	
Pentosans:	
Determination of, notes on (Fraps). 1901. p. 112.	A7.3:62
Estimation of, phloroglucin method for (Lindsey and Holland).  1896. p. 53	A7.3:49
Pentstemon, notes on (Vasey). 1874. p. 438.	A27.9:12
People, health of:	
1894. p. 201	
1895. p. 140 1896. No. 136. p. 6	
People of Mars (Talman). 1900. p. 537.	A29.6:28
People's banks. See Banks—Credit associations.	
Peppermint, oil of, account of. 1884. No. 9. p. 28.	A27.9:22
See also Oil of peppermint.  Peppers. American varieties of, list of (Tracy). 1902	A19.3:6
Peppers, American varieties of, list of (Tracy). 1902	
1891. p. 106 Perfumery, manufacture of. 1867. p. 251	A28.5:6
Perfumery, manufacture of 1867. p. 251	A27.9:5 A1.10:898
Pergande, Theodore:	1111101000
Cotton or melon plant-louse, report on. 1895. p. 309	
Peach lecanium, report on. 1898. p. 26	A9.6:18
life history of. 1902	A9.8:9
life history of. 1902 Plum plant-louse, report on. 1897. p. 52	A9.6:7
Southern grain louse. 1902. p. 7	
See also, as joint author, Hubbard, Henry Guernsey.	120.7.7
Pergande, Theodore, and Cockerell, Theodore Dru Alison. Coccide	
collected in Puerto Rico by A. Busch in 1899, list of. 1900. p. 92	A9.6:22
Periodic fever. See Splenic fever. Periodical cicada. See Cicada.	
Perishable goods, extremes of temperature safe for. 1900. p. 741 Perkins, G. H. Lachnosterna, notes on. 1892. p. 389	A1.10:900
Perkins, G. H. Lachnosterna, notes on. 1892. p. 389	A9.7:4
Perkins, George A.:  Address of, before national road conference, July, 1894. p. 53	A22.3:10
Highways, State, in Massachusetts. 1894. p. 505	A1.10:894
Pernicious scale. See San José scale. Pernter, J. M. Hail, damage by, in spite of cannonading. 1901.	
p. 117	A29.6:29
Pernter's meteorological optics, note on (Abbe). 1902. p. 132	A29.6:30
Perognathus. See Pocket mice.	
Peronosporese:  Economic, for 1889 in New Jersey, some notes upon (Halsted).	
1889. p. 201	A28.5:5
Grape vine, first results obtained from use of chloride of aluminum	
and proposal of new remedies against (Comes and Deperais).  1890. p. 94	A6.3:11
Milk of lime as remedy for, account of visit of Prof. Dehérain to	
Italian vineyards treated with. 1886. p. 77	A6.3:2
Rain-fall and, report on (Halsted). 1889. p. 6	
Some, in herbarium of Vegetable Pathology Division (Swingle).	
1891. p. 109	A28.5:7
Two new species of, description of (Waite). 1891. p. 105	A28.5:7

See also Optical phenomena.

A29.6:24 A29.6:28

A29.6:27

p. 328
Phenology in Ohio, note on, 1856-99 (Abbe). p. 156......

Phenomena, injurious, frequency of, note on (Abbe). 1899. p. 59.

index	Classification no.
Philadelphia, Pa. See Franklin Kite Club.	
Philadelphia, Pa., Centennial Exposition, 1876:	
Address of Frederick Watts at, July 4, 1875. p. 440	A27.9:13
Agriculture at. 1876. p. 248	A27.9:14
Agriculture Department exhibit at—	A 07 0.14
note on. p. 133	AZ1.9:14 A1 1.970
Participation of Agriculture Department in (Saunders). 1884	A1.1.078
Relation of agriculture to. 1871. p. 288	A1.1:871
Relation of agriculture to. 1871. p. 288	
Philadelphia, Pa., national agricultural congress, 5th, Sept. 12-14,	
1876. p. 402	A27.9:14
Philippine Islands:	41 10 001
Agricultural investigations in (Evans). 1901. p. 503.	A1.10:901
Animals from, order prohibiting landing of, at any port of U.S., or dependencies thereof, Dec. 13, 1901	A4.5:92
Baguios of, notes on (Abbe). 1899. p. 470	
Brief account of. 1898, p. 672	A1.10:898
Climate in, notes on (Brewer), 1900, p. 102	A29.6:28
Hurricanes of 1895 and 1896 in (Stetson). p. 101	A29.6:28
Plant, products of, notes on (Hitchcock). 1899	
Trade of (Hitchcock). 1898.	
Weather Bureau, organization of, by U. S. Philippine Commission (Abba) 1901 p. 372	A 90 R 90
sion (Abbe). 1901. p. 372	A 29.6:29
See also Baguio — Manila.	112010.20
Phillips, James P. Texas fever of cattle, or Southern cattle "dis-	
temper," ravages of. p. 142	A1.6:22
Phillips, William Fowke Ravenel:	
Address, as chairman of educational section, before second con-	
vention of Weather Bureau officials, held at Milwaukee, Wis.,	A 90 9-91
Aug. 27-29, 1901. p. 81	A29.6:23
Climate of Cuba—	
report on, with note on weather of Manila. 1898	A29.3:22
report on. p. 307	A29.1:898
Clothing and temperature, 1897. p. 200	A29.6:25
Meteorology— elementary, text-books and works of reference for students	
	A29.6:30
of. 1902. p. 408. monthly list of papers bearing on, Jan., 1899–Dec., 1902.	A29.6:
relation between public health and. 1895. p. 171	A29.6:23
Sunstroke in California and Arizona. 1896. p. 454	
Sunstroke weather of August, 1896. p. 409.	A29.6:24
Temperature, rainfall, and humidity at San Juan, Porto Rico. 1899. p. 319	A29.1:898
Weather Bureau library, monthly additions to, Dec., 1897-Mar.,	1120.1.000
1898	A29.6:
Weather of Manila. 1899. p. 321	A29.1:898
See also, as editor, Weather Bureau officials, proceedings 2d con-	
vention of; as joint author, Calvert, Edgar B. Phinney, S. B. Cranberry culture. p. 131	A1 1.982
Phipps, R. W.:	A1.1.000
Forestry in Ontario, address on. 1884. p. 43	A1.7:5
Forestry in Ontario, address on. 1884. p. 43	A1.7:1
Phloroglucin method for estimation of pentosans (Lindsey and Hol-	A # O 40
land). 1896. p. 53	A7.3:49
Phognhata acid ingoluble paper on 1801 n 106	A29.0:29 A7 9.91
Phosphate acid, insoluble, paper on. 1891. p. 106.  Phosphate of lime, mineral. 1867. p. 256	A27.9:5
Phosphates:	
Action of oxalic acid upon (Kastle and others). 1894. p. 53	A7.3:43
As fertilizers. 1897. p. 12	A1.9:56
Action of oxalic acid upon (Kastle and others). 1894. p. 53 As fertilizers. 1897. p. 12 Concentrated, notes on analysis of (Stillwell and Gladding). 1893. p. 18	A 7 0 300
1893. p. 18.  Determinations of loss on heating samples of, 1892 (Huston).	A (.3:38
p. 47	A7.3:35
I	· · · · · · · ·

	Classification
Phosphates—Continued	
Iron and alumina in, determination of, method of. 1897. p. 47. Mineral, as fertilizers (Wiley). 1894. p. 177.	
Native, containing iron and aluminum, analysis of, proposed	A1.10:894
method for (Wilkinson). 1891. p. 107	A7.3:31
method for (Wilkinson). 1891. p. 107.  Russian mineral (Yermoloff). 1873. p. 22.	A27.9:11
See also Mineral phosphates.	
Phosphatic slag, basic, mechanical analysis of (Wiley). 1896. p. 78	A7.3:49
Phosphomolybdate. See Ammonium phosphomolybdate.	
Phosphoric acid: Additional notes on (Meng). 1892. p. 27.	47 Q.QK
Available—	A7.0.00
determination of, comparison of Wagner's and present Associ-	
ation method for (Frear and McDonnell). 1886. p. 26	A7.3:12
in fertilizers containing cotton-seed meal, determination of	A # 0 00
(Dancy). 1890. p. 161 Citrate-insoluble, comparison of results by old and new methods	A7.3:28
for (Kilgore and Williams). 1894. p. 108	A7.3:43
Citrate-soluble, determination of (Ross). 1893. p. 16	
Citrate soluble and insoluble, as determined by different methods	
(Solberg). 1895. p. 85	A7.3:47
Determination of—	A 77 . O . 4 O
by molybdate method (Garrigues). 1894. p. 105	A7.3:43
1886. p. 24	A7.3:12
in soils (Snyder). 1895. p. 48.	A7.3:47
same (Goss). 1894. p. 58	A7.3:43
same (Goss). 1895. p. 50	A7.3:50
increased accuracy in (Wheeler). 1901. p. 44	A7.3:62
tity of substance (De Roode). 1891. p. 104	A7.3:31
use of ammonium nitrate in (Wheeler and Hartwell). 1892.	A7.0.01
· · · · · · · · · · · · · · · · · · ·	A7.3:35
p. 53. Discussion on estimation of (Gladding). 1896. p. 75	A7.3:49
Insoluble, paper on (Morse). 1891. p. 106.	A7.3:31
Kilgore's modification of volumetric method of estimating (Williams). 1901. p. 55	A7.3:62
Method of determining, in fertilizers. 1886. p. 43	A7.3:12
Pemberton's method of determination, comparison of, with offi-	
cial method by Francis Bergami (Kilgore). 1894. p. 97	A7.3:43
Rendered soluble by digestion with ammonium citrate at 65° C.,	17040
amount of washing required to remove (Veitch). 1896. p. 73. Reverted—	A7.3:49
differences in determination of, by official method of analysis	
(Gibson). 1890. p. 166	A7.3:28
remarks on (Warder). 1889. p. 184	A7.3:24
Soil solvents for (Huston and Bartlett). 1896. p. 91	A7.3:49
soils.	
Phosphoric acid, committee on, report of, at Convention of Associa-	
tion of Official Agricultural Chemists:	
1886. p. 16	A7.3:12
1887. p. 36	
1889. p. 44	A7.3:18 A7.3:24
1890. p. 153	A7.3:28
1891. p. 81	A7.3:31
1892. p. 23	
1893. p. 6	
1894. pp. 68, 86. 1895. p. 62	
1897. p. 47	
1898. p. 36	A7.3:56
1899. p. 65	
1900. p. 35	
1901. p. 22	A1.5:07

•	Classification no.
Phosphorescent myriopods (Bruner). 1891. p. 319	A9.7:3
(Sherman). 1902 Photographic apparatus for measuring altitudes attained by balloons	A10.3:121
(Cailletet). 1897. p. 443.	A29.6:25
Photographing lightning by daylight (Henry). 1895. p. 379	A29.6:23
p. 541	A29.6:28 A29.6:26
Photography in meteorology, notes on (Abbe). 1900. p. 159	A29.6:28
See also Cloud photography — Tornado photographs.  Phragmidium. See Puccinia and phragmidium.	120.0.20
Phreatic waters in Nye County, Nevada (Nichols). 1891. p. 207	A15.2:P941
See also Underground draining.	
Phylloxera:	<b>,</b>
California (Hilgard). 1892. p. 155	A1.8:20
Control of, by submersion. 1894. p. 315	<b>A9.7:6</b>
Europe and America, report on (Planchon). 1874. p. 55	A27.9:12
Experiments with (Glover). 1874. p. 428	A27.9:12
Grape, notes on (Riley). p. 405	A1.1:884
Notes on, from foreign sources (Glover). 1875. p. 40	
Problem abroad as it appears to-day. 1890. p. 310	
Remarks on (Glover). 1874. p. 43.  Resin compounds on, experiments with, in 1890 (Koebele).	A27.9:12
1891. p. 37	A9.3:23
Stomata on Carya alba caused by, strange developments of (Owen).	A O 7. 1
1892. p. 327. Phylloxera vastatrix in Austria (Glover). 1875. p. 223	A9.7:4
Physical geometry laboratory work in (Kimball) 1009 - 219	A27.9:13 A29.6:30
Physical geography, laboratory work in (Kimball). 1902. p. 313 Physical researches at Juvisy observatory, principally on solar rays	A29.0:30
(Flammarion). 1899. pp. 103, 203	A10.6:10
Physics and meteorology:	
In universities, notes on (Abbe). 1899. p. 258	A29.6:27
Notes on. 1902. p. 445	A29.6:30
Physiological rôle of water in plants (Gain). 1897. p. 3	A10.6:8
Physiology. See Vegetable physiology.	107.0
Phytomyza affinis as cause of decay in clematis (Bos). 1893. p. 92.	A9.7:0
Phytophagic eurytominæ. See Grass and grain joint-worm flies. Phytoptus distortions, erysipheæ upon (Anderson and Kelsey).	
1889. p. 209.	A28.5:5
1889. p. 209 Piedmont region, northwest gales of (Hawkins). 1899. p. 13	A29.6:27
Pierce, Newton Barris:	1120.0.21
Almond disease caused by Cercospora circumscissa, remedies for.	
1891. p. 232.	A28.5:7
Almond trees, disease of. 1891. p. 66.	A28.5:7
California vine disease, preliminary report of investigations. 1892.	<b>A28.3:2</b>
Grape diseases on Pacific coast. 1895	A1.9:30
Olive culture in U.S. 1896. p. 371	A1.10:896
Peach leaf curl, its nature and treatment. 1900	A28.3:20
Prune rust. 1891. p. 354	A28.5:7
Tuberculosis of olive. 1891. p. 148	A28.5:6
Piercy, Joseph C.:	
Aerial observations. 1899. p. 119 Weather Bureau benefits to western Nebraska. 1899. p. 144	A29.3:24
Weather Bureau benefits to western Nebraska. 1899. p. 144	A29.3:24
Pierre, S. Dak., ice at, breaking up of, notes on, 1846-89 (Abbe).	A 90 97
p. 109	A29.6:27
Pierson, William M. Grape-culture and wine-making in El Paso del Norte 1873 p. 24	A27.9:11
del Norte. 1873. p. 24	A41.0.11
Crimson clover seed, circular on	A G 4.18
Farmers' interest in good seed. 1900.	A1.9:111
Red clover seed— circular on. 1900.	A6.4:24
information to purchasers. 1901	A1.9:123
Seed—	
of beardless brome grass. 1900.	A6.4:25

	Classification no
Pieters, Adrian John—Continued	
Seed—Continued	1
production and seed saving. 1896. p. 207	A1.10:896
selling, growing, and testing. 1899. p. 549	A1.10:899
testing, methods of, and their relation to farm and garden.	
- The state of the	
1900. p. 55	A1.10:895
Seeds, agricultural, where grown and how handled. 1901. p.	1
233	A1.10:901
Sugar-beet seed, production and testing. 1902. p. 101	A1.8:72
Pieters, Adrian John, and Brown, Edgar. Kentucky blue-grass seed,	211.0.12
harvesting, curing, and cleaning. 1902	A19.3:19
Pieters, Adrian John, and Charles, Vera K. Seed coats of certain	1
species of genus Brassica. 1901	A6.3:29
Pigeons:	A 4 4 .1 E
Animal parasites of, checklist of (Hassall). 1896.	A4.4:15
Fatal disease of, pathogenic bacillus of hog-cholera group asso-	1400
ciated with (Moore). 1895. p. 71.	
Piggery, model, plan of (Morris). p. 476.	· A1.1:865
Pigs:	1.50.50
Carcasses of, chemical composition of (Wiley and others). 1898.	A7.3:53
Corn, cowpeas, and wheat bran for fattening (Duggar). p. 496	A4.1:898
Corn meal and wheat shorts, as food for (Plumb and Anderson).	
p. 463	A4.1:899
Feeding in New Hampshire, experiments in (Burkett). p. 465	A4.1:899
Feeding rice meal to. 1901. p. 24	A1.9:144
Forage crops for—	}
1897. p. 6	A1.9:56
1898. p. 18	A1.9:84
1901 (Langworthy). p. 25	A1.9:124
Jerusalem artichokes for. 1899. p. 20	A1.9:92
Lung and spleen of, nonmotile pathogenic bacillus closely re-	
sembling bacillus of hog cholera found in (Moore). 1893.	
n 31	A4.3:3
Pasturing in stubble fields. 1898. p. 20	A1.9:79
Profitable crops for. 1901. p. 27	A1.9:133
Slop for. 1901. p. 26	A1.9:133
Subcutaneous tissues of, what becomes of hog-cholera and swine-	122701200
plague bacteria injected into (Moore). 1894. p. 103	A4.3:6
Wheat in sheaf, and chopped wheat for (French). p. 494	
See also Sows.	111.1.000
Pika, new species of, from Sierra Nevada Mountains, Cal., descrip-	
tion of (Merriam). 1889. p. 11.	A5.5:2
Pike, Nicolas. Leopard moth, ravages of, in Brooklyn. 1892. p. 317.	A9.7:4
Pikes Peak, hourly meteorological records at, November, 1892, to	MU.I.T
September, 1894, brief discussion of (Morrill). 1896. p. 215	
Pimpla conquisitor, relations of, to Clisiocampa americana (Weed	
and Fiske). 1900. p. 33	
Pimpla inquisitor, life history of (Weed). 1891. p. 275	
Pinchot, Gifford:	A0.1.0
Forest lands, practical assistance to farmers, lumbermen, and	
	A 19 4.91
others in handling. 1898	A 1 10.900
Forest problems, notes on some. 1898. p. 181.	A1.10:000
Forest students, prospective, suggestions to. 1902	
Forestry, progress of, in United States. 1899. p. 293	A1.10:099
1909 - 907	A 1 10.000
Defense of January mt 1	A1.10:000
1898. p. 297 Primer of forestry, pt. 1 Rainfall and charts of rainfall. 1902. p. 232	A 90 g.90
The plenter proticel esistence to	A 19 4.00
Tree planters, practical assistance to	
See also, for reports as Chief, Forestry Division, 1898; as Forester,	
Forestry Division, 1899-1901; and as Forester, Forestry Bu-	
reau, 1902	A13.1:
Pindell, Lewis M.:	100 0.04
River and flood service. 1899. p. 51	AZ9.3:24
weather symbols on rural free-delivery wagons. 1902. p. 208	.  A29.3:31

ı

Index	Classification no
Pine: Insect enemies of, in Black Hills forest reserve (Hopkins). 1902. Insect injury to trees in Virginia and neighboring States (Chit-	A9.6:32
tenden). 1897. p. 67 Insects attacking trees, observations on certain (Felt). 1902.	A9.6:7
p. 103 Test pieces of, instructions for collection of, for timber investiga-	A9.6:37
tions  See also Cuban pine — Loblolly pine — Long-leaf pine — Marsh or pond pine — Naval store industry — Short-leaf pine — Timber pine — White pine.	A13.2:P65
Pine bark-beetle, destructive, damage to forests by (Hopkins). 1893. p. 187	A9.7:5
Pine Bluff, Ark., working plan for forest lands near (Olmsted).	A13.3:32
Pine-leaf rust, new (Galloway). 1891. p. 44	A28.5:7
Growing of (Rolfs). 1901.  same, in southern Florida, note on (Abbe). 1900. p. 253  Industry of the U. S. (Webber). 1895. p. 269	A1.9:140 A29.6:28 A1.10:895
Pineapple fiber, results of recent investigations relating to (Dodge).  1893. p. 44	A11.5:5
Same, report of special agent, 1892 (Munroe). 1893. p. 46	A11.5:5
(Saunders). 1897. Pinehurst experimental teagarden, near Summerville, S. C., tea rais-	A14.4:1
ing at (Shepard). p. 627	A1.1:892 A29.3:11 <sup>1</sup>
Pinks, carnations and other, stigmonose, a disease of (Woods). 1900. Pioneer in agricultural science, Edmund Ruffin (Cutter). 1895.	A28.3:19
p. 493	A1.10:895
Melica and Stipa, notes on. 1900. p. 10	A3.4:27 A1.9:153
Piper, Horace. Plants, hybridizing, cross-breeding, and degeneration of. p. 296	A1.1:867
Pisciculture:	A27.9:6
Letter on. 1868. p. 361 With reference to American waters (Gill). p. 394	A1.1:866
Pittier, H. Climatology of Costa Rica, monthly notes on, Jan., 1901– Oct., 1902	A29.6:
Pittsburg, Pa., nutrition investigations in, 1894–1896 (Bevier)	A10.3:52 A29.6:29
Plague. See Cattle plague — Hippelates — Pleuro-pneumonia. Plains:	1120.0.20
Calf-raising on (Rust). p. 177 Cultivation of. 1871. p. 25	A4.1:886 A27.9:9
Experimental tree-planting in (Keffer). 1898	A13.3:18
Forest cultivation on, general discussion of (Blodget). p. 316 Grasses of eastern slope of Rocky Mountains and, catalogue of.	A1.1:872
p. 217 Tree planting and growing on (Furnas). 1883. p. 202	A1.1:870 A1.7:2
same, p. 37	A1.8:28
See also Western plains.  Planchon ——. Phylloxera of Europe and America. 1874. p. 55  Planchon, J. E. Eucalyptus globulus from botanic, economic, and	A27.9:12
medical point of view, embracing its introduction, culture, and uses. 1875	A1.8:9
Planchon, V. Soluble acids, estimation of, in butter fat. 1890. p. 112	A7.3:24
Plant breeding: Hybrids and their utilization in (Swingle and Webber). 1897.	
p. 383. Progress of, in United States (Webber and Bessey). 1899. p. 465.	A1.10:897 A1.10:898
same (Hays). 1901. p. 217 Report on (Coville). 1898	A1.10:901 A6.2:P69
same (Hays). 1901.	A28.3:29

$\cdot$	Classification no
Plant breeding—Continued	
See also Evans, Walter Harrison — Xenia.  Plant-breeding station, Svalöf, Sweden (Fairchild). 1901. p. 814	A 10 R : 19
Plant diseases:	A10.0:13
Abstracts of reports of agricultural experiment stations on,	•
1889–1902	A10.6:
Fungicides or remedies for (Scribner). 1888	A28.4:5
Possibility of lessening their spread by legislation (Galloway). 1897. p. 8	A1.8:57
Proceedings of national convention for suppression of insect	111.0.01
pests and (Galloway). 1897	A1.8:57
Progress in treatment of, in U. S. (Galloway). 1899. p. 191	A1.10:899
Restriction of, legal enactments for; compilation of laws of U.S. and Canada (Smith). 1896	A28.3:11
Study of fungi, especially in their relation to (Journal of Mycol-	1120.0.11
ogy	A28.5:
Treatment of, experiments in, 1891—	400 F 0
(Galloway and Fairchild.) pp. 89, 137. (Galloway.) p. 12	A28.5:6 A28.5:7
same.	A28.3:3
United States—	
1898. p. 652	A1.10:898
1899. p. 750 1900. p. 729	A1.10:899 A1.10:900
1901 (Orton). p. 668	A1.10:901
See also Almond disease — Apple scab — Bermuda lily disease —	
Black knot — Black spot — Blackberry rust — Blight — Blister	
mite—Cereal rusts—Club root—Cranberry gall fungus— Cranberry rot and scald—Glœosporium—Gooseberry mil-	
dew — Grape mildew — Hollyhock disease — Hyacinth germ,	
Wakker's—Leaf blight—Leaf curl of peach trees—Leaf sick-	
ness of begonia and asplenium — Mosaic disease of tobacco —	
Peach blight — Peach-leaf curl — Peach rosette — Peach rot — Peach yellows — Pear blight — Pear-leaf blight — Pear scab —	_
Pear-tree blight — Peronosporese — Potato blight — Potato	_
fungus—Potato rot—Potato scab—Powdery mildew—Prune	
rust — Ripe rot — Root fungus — Root knot — Root-rot dis-	
ease — Rust mite — Smut — Sooty mold of orange — Sorghum blight — Sphærotheca phytophila — Spot disease — Spotting	
of peaches — Stigmonose — Sweet-potato black rot — Tribli-	
dium — Uredineæ — Ustilagineæ — White fir — Wilt disease.	
Plant faunæ, notes on (Cockerell). 1892. p. 117.	A9.7:5
Plant food: Artificial, requirements of soils (Kilgore). 1902. p. 73	A 10 3·115
Available, plan for cooperating in study of (Moore). 1902	A7.4:9
Plant growth, relation of lime and magnesia to, experimental study	
of (May). 1901. p. 37.	A19.3:1
Plant introduction: Commercial (Smith). 1900. p. 131	A1 10:900
Systematic, its purposes and methods (Fairchild). 1898	A13.3:21
See also Seed and plant introduction.	
Plant lice, two new species, inhabiting witch-hazel and birch, life	1000
history of (Pergande). 1901. See also Aphididæ—Aphis—Green-pea louse—Hop-plant louse—	A9.5:9
Pear-tree psylla—Phylloxera—Phylloxera vastatrix—Plum-	
plant louse.	
Plant life of Alabama (Mohr). 1901.	A6.5:6
Plant physiology in relation to horticulture and agriculture (Woods).	A 10.3-99
1901. p. 127 Plant poisoning of stock in Montana (Wilcox). p. 91	A4.1:900
Plant registration, report of committee of Association of American	
Agricultural Colleges and Experiment Stations on. 1898. p. 76.	A10.3:49
Plant soil tests: Danger of drawing erroneous conclusions from (Wheeler). 1898.	
p. 60	A7.3:56
Possibility of drawing erroneous conclusions from (Wheeler).	
1899. p. 113	A10.3:65

	Classification no.
Plant varieties, influence of environment in origination of (Webber).	
1896. p. 89 Plantations, commercial, hardy catalpa in (Hall). 1902	A1.10:896
Plantations, commercial, narry catalpa in (Hall). 1902	A13.3:37
	A1.8:10
Planting, southern, and northern farming (Watts). 1872. p. 207	A27.9:10
Plants: American, regulations of foreign governments regarding imports-	
tion of (Howard). 1900	A9.5:41
Ash constituents of, their estimation and importance to agricul-	
tural chemistry and agriculture (Tollens). 1902. pp. 207, 305. Ash of, loss of sulphur in preparing (Fraps). 1901. p. 98	A10.6:13 A7.3:62
Bacteria parasitic on, four one-flagellate yellow, cultural charac-	117.0.02
ters of (Smith). 1901	A28.3:28
Bacterial diseases of. 1898. p. 24	A1.9:78 A27.9:13
same, 1876. p. 196.	A27.9:14
Certain, of economic value as food for man and stock in Texas	4.1.00
and New Mexico (Richardson). p. 282	A1.1:887
1901. p. 299	A1.10:901
Cold vs. warm water for, opinions of florists and gardeners. 1899.	
p. 13.	A1.9:92
Commercial growing of, under glass, progress of (Galloway). 1899. p. 575	A1.10:899
Contributions from U.S. National Herbarium	A6.5:
Crude petroleum and its effects upon, note on (Smith). 1901.	A 10 D-00
p. 176	A10.3:99
frosts and freezes as affecting. 1895. p. 143	A1.10:895
principles and methods of breeding (Liebscher). 1897. p. 347.	
selection and its effects on (De Vilmorin). 1900. p. 3	A10.6:11
1893. pp. 528, 627	A10.6:4
Distribution from U.S. propagating garden, catalogue of (Saun-	4100
ders). 1862 Effect of naphthaline on (Taylor). 1883	A1.8:2 A18.2:N16
Exotic collection of Agriculture Department, descriptive catalogue	1110.2.1(10
of (Saunders). 1872	A1.8:6
Feeding capacities of— cooperative experimenting as means of studying, etc., ferti-	
lizers and (Atwater). 1882. p. 27	A1.8:22
experiments with fertilizers on fruits and vegetables to study	410 4.70
variations due to action of fertilizers. 1891	
Flowering of, dates of. 1864. No. 3. pp. 15, 25	A27.9:2
Formation of sodium carbonate, or black alkali, by (Cameron).	
1902. p. 61  Free importation of. 1868. p. 62	
Fungoid disease of (Taylor). p. 110	A1.1:871
Fungous diseases of—	A 0 0 11
experiments made in 1889 in treatment of (Galloway)outlines of certain, with remarks upon application of remedies	A6.3:11
(Scribner). p. 76	A1.1:885
report on (Pearson). 1890. p. 41	A6.3:11
treatment for— 1895. p. 587	A1.10:895
1895. p. 587 1896. p. 625	A1.10:896
1897. p. 673	A1.10:897
Geography of (Lippincott), p. 464	A1.10:894 A1.1:883
Geography of (Lippincott). p. 464	A1.9:97
Growth of, increasing vigor of. 1872. p. 143	A27.9:10
Health of— in greenhouses (Galloway), 1895, p. 247	A1 10-895
in greenhouses (Galloway). 1895. p. 247	A1.10:901
House, cultivation of (Hall). p. 366	A1.1:863

	Classification r
Plants—Continued	
Hybridizing, cross-breeding, and degeneration of (Piper). p. 296. Improvement of, by selection (Webber). 1898. p. 355	A1.1:867 A1.10:898
Influence of illuminating gas upon (McMurtrie). 1875. p. 310	A27.9:13
Insects and, some interrelations of (Riley). 1892. p. 358 Leguminous—	
for green manuring and feeding (Allen). 1894	
nitrogen, a germ fertilizer for. 1897. p. 19	A1.9:65
soil inoculation for (May and Beal). 1901. p. 7	A1.9:124
Low-growing, hydrocyanic-acid gas as insecticide on (Sanderson	
and Penny). 1900. p. 60	A9.6:26
Mildew and other fungous diseases of, apparatus for combating	
(Ferrouillat). 1888. p. 87	
Mineral food of. 1870. p. 40	
Nitrogen-free extract of (Tollens). 1897. p. 641	A10.6:8
Organic matter in, origin and formation of (Dehérain). 1898.	110.00
Ornamental, insects injurious to, some (Chittenden). 1901	A9.6:27
Pathology of, lines of investigation that might be undertaken by	110.0.21
experiment stations (Galloway). 1897. p. 725	A10.6:7
Propagation of (Corbett). 1902	A1.9:157
Pseudomonas hyacinthi, Ps. campestris, Ps. phaseoli, and Ps.	
stewarti—four one-flagellate yellow bacteria parasitic on, cul-	
tural characters of (Smith). 1901	A28.3:28
Resistance of certain, to black alkali (Cameron). 1902. p. 71	
Santo Domingo. 1870. p. 283	A27.9:8
Sap of, circulation of (Vasey). 1874. p. 151.  Scale insects found upon plants entering port of San Francisco,	A27.9:12
list of (Craw). 1896. n 40	A9 8-4
list of (Craw). 1896. p. 40.  Seedling, effect of certain components of alkali soils upon	110.0.1
(Kearney and Cameron). 1902. p. 7	A1.8:71
(Kearney and Cameron). 1902. p. 7	A10.5:3
Three new, descriptions of (Rose). 1893. p. 289	A6.5:1
Under glass, treatment of mildews upon (Maynard). 1891. p. 16.	
United States, in Agriculture Department, catalogue of. 186	A1.2:P69
Used by— Indians of Mendocino County, California (Chesnut). 1902.	
p. 295	A6.5:7
Klamath Indians of Oregon, notes on (Coville). 1897. p. 87	
Useful—	
California (Hilgard). 1892. p. 137	A1.8:20
certain species of Coleoptera that attack, notes on (Chit-	
tenden). 1897. p. 20	A9.6:9
Varieties of, what our experiment stations have done in originating, by crossing, selecting, etc. (Halsted). 1901. p. 143	
Variety testing, methods of work in (Green). 1891. p. 49	
Water as a factor in the growth of (Galloway and Woods). 1894.	
p. 165	A1.10:894
Water in, physical rôle of (Gain). 1897. p. 3	A10.6:8
Wild, feeding to sheep (Nelson). p. 421	A4.1:898
same, p. 10	A4.3:22
See also Agave — Agriculture — Alsike clover — Anhalonium — Apetalæ — Arborescent flora — Aroid plant — Asplenium —	
Berseem — Brassica — Burley tobacco — Cactus (flower) —	
Calamovilfa — California — Canada thistle — Canaigre — Cas-	
sava — Castor-oil bean — Castor-oil plant — Cellulose —	ŀ
Chicory — Chinese tea-plant — Chufa — Cigar-leaf tobacco —	į
Cocklebur — Cocoa palm — Coffee — Conamelinacea — Condu-	
rango — Crepis occidentalis — Cucurbits — Dodders — Dyer's	
madder — Echinocactus — Economic plants — Faunæ —	
Ferns—Fertilizers—Fiber plants—Flat-pea—Flax—Flax—Flax-	
cotton—Flowers—Forage plants—Gamopetalæ—Giant beg-	
gar weed—Giant knotweed—Ginseng—Gramineæ—Gran- cultura—Grasses and forage plants—Hemp—Hespero-	
cultura — Grasses and forage plants — Hemp — Hespero- genia — Hoffmanseggia — Hollyhocks — Hop plant — House	
plants — Indigo plant — Irish moss — Jouver — Jute — Knot-	l

	Classification no.
Plants—Continued  weed — Larkspur — Leibergia — Lichens — Licorice — Liverworts — Loco plant — Lophophora — Madder — Manila hemp — Marine plants — Monocotyledons — Moss — Mustard — Nut grass — Opium poppy — Opuntia — Osier culture — Osier-willow — Pachybasium — Palmer, Edward — Pasture plants — Pentstemon — Peppermint — Phanerogams — Poison oak — Poisonous plants — Polypetalæ — Pteridophytes — Pyrethrum — Quassia — Ramie — Rhubarb — Roseanthus — Sap — Seeds and plants — Shrubs — Soils — Sorghum — Starch — Sugar cane — Sugar-yielding plants — Tea — Teasel — Tobacco — Tradescantia — Trees — Trelease — Tres Marias Islands, Mexico — Umbelliferæ — Water hyacinth — Woody plants — Yucca — Yucca whipplei.  Plaster and lime, use of. 1863. No. 6. p. 13.  Plat experimenting, methods of (Hays). 1896. p. 84.  Plat vs. pot or box experimentation (Thorne). 1890. p. 81.	A27.9:1 A10.3:30 A10.5:3
p. 207.  Plats, equalizing irregularities of, caused by defective germination	A29.6:23
(Hunt). 1891. p. 111	A10.5:3
Plats in field experimentation, form, size, arrangement, and treatment of (Latta). 1896. p. 83	A10.3:30
Platte County, Nebr. See Great Eastern Canal. Platypsyllus:	
Egg and ultimate larva (Riley). 1890. p. 244 Systematic relations of, as determined by larva (Riley). 1889.	A9.7:2
p. 300	A9.7:1
at (Peters). p. 8.  Playa Rica, Ecuador, climatological data from (Stapleton). 1898.	A22.4:27
p. 460	A29.6:26
Agricultural production, diversity in. p. 247	A1.1:867
Wheat culture in Virginia. 1869. p. 231  Pleuro-pneumonia, or lung plague of cattle:  Article on—	A27.9:7
in National Live Stock Journal, 1880 (Law). p. 179	
review of. p. 143same, p. 436	A1.1:879
Contagious— 1st report, 1879 (Lyman). p. 456	A1.1:879
same, p. 163 \\ 2d report, 1880 (Lyman). p. 196 \\	A1.6:22
3d report, 1880 (Lyman). p. 571	A1.1:880
same	A1.6:31
same, p. 268 4th report, 1881 (Lyman). p. 30	A1.6:34 A1.1:881-2
Final report, 1882 (Lyman). p. 352	A1.1:881-2
Delaware, outbreak of. p. 448	A4.1:884 A4 1:889_90
History of, in Richmond County, New York (Rose). p. 468	A4.1:884
Investigation of; inspection of stables. 1885. p. 553	
Investigations of—	
in Kansas (Devoe). p. 322	A4.1:895-6 A1.1:881-2
in New Jersey (Corlies). p. 46	A1.1:881-2
same (Miller). p. 45	A1.1:881-2
in New York (Hopkins). p. 43in Pennsylvania (Gadsden). p. 47	A1.1:881-2 A1.1:881-2
report on—	
1884. p. 181	A1.1:884 A4.1:884
same, p. 8	A4.2:An5
1885. p. 431 same, p. 9	A1.1:885
Bome, h. g	T4'1'000

Classification no.

	Classification n
Pleuro-pneumonia, or lung plague of cattle—Continued	
Investigations of—Continued	
report on—Continued	
1886. p. 593	A1.1:886
same, p. 9	A4.1:886
1887. p. 458	A1.1:887
same, p. 9	A4.1:887
1888. p. 147	A1.1:888
same, p. 29, 3d par	<b>A4.1:887–8</b>
1889. p. 49	
same, p. 7	A4.1:889-90
1890. p. 75	
same, p. 63	
1891. p. 94	
same, p. 22	A4.1:891-2
1892. p. 85	
same, p. 71	
Legislation relative to, report on. 1882. p. 133	A1.8:22
Letters relative to (Law). pp. 233, 237	
New Jersey (Hunt). p. 297	A4.1:884
(Woodward). 1871. p. 64	A1.2:C29 <sup>2</sup>
Preliminary report on (Gamgee). 1868. p. 432.	A27.9:6
Report on (Gamgee). 1869. p. 7	A1.2:C29 <sup>1</sup>
same, p. 3	A1.2:C29 2
Where and to what extent it exists. 1870.	A1.2:C29 6
See also Tuberculosis.	111.5.020
Plover, killdeer, circular on. 1889	A5.4:10
Plow:	,
American, in Europe. 1868. p. 286	A27.9:6
British improvement in. 1871. p. 67	A27.9:9
Cleaning, mixture for. 1898. p. 677	A1.10:898
Steam, in Louisiana. 1869. p. 225	A27.9:7
Plowing, early, for wheat (May). 1900. p. 7	A1.9:122
See also Steam plowing.	
Plows and plowing (Fleischmann). 1883. No. 64. p. 64.	A27.9:21
Plum curculio:	
Arsenical poisons for (Forbes). 1889. p. 3	A9.7:2
Egg-laying record of (Quaintance and Smith). 1902. p. 105	A9.6:37
Experiments in rearing, from plums and other fruits (Webster).	
p. 78same, p. 78	A1.1:888
Experiments with (Webster). 1890. p. 305	A9.1:888 A9.7:2
Notes on (Smith). 1891. p. 219.	A9.7:3
same (Gillette). 1891. p. 227	A9.7:3
Report on (Riley and Howard). p. 57	A1.1:888
same, p. 57	A9.1:888
same, p. 57 Plum gouger, notes on (Gillette). 1891. p. 227	A9.7:3
Plum plant-louse, report on (Pergande). 1897. p. 52	A9.6:7
Plum trees, black knot of (Peck). p. 175	A1.1:872
Same (Taylor). 1874. p. 52	A27.9:12
Plumandon, J. R. Hail shooting, general report on, presented to con-	
gress at Lyons; translated by Mrs. R. S. Hotze. 1902. p. 35.	A29.6:30
Plumb, Charles Sumner:	
Cereals, geographic distribution of, in North America. 1898	
Silos and silage. 1895	A1.9:32
Plumb, Charles Sumner, and Anderson, W. B. Corn meal and	
wheat shorts as food for pigs. p. 463	A4.1:899
Plums:	47.0.700
Cross-pollination of (Clark). 1899. p. 6	A1.9:103
Culture of. 1902. p. 20 Food value of (Langworthy). 1899. p. 22	A1.9:149
Notice have to family them. The are are and the second to	A1.9:105
Native, how to fruit them; they are practically curculio proof	
(Wier). 1887. p. 39	A9.3:14
on (Scott) 1909 n 56	A9.6:31
on (Scott). 1902. p. 56	A9.6:31 A4.3:29
Try mount fock, American procus of towis. I. 1901	ハオ・ひんび

	Classification no.
Pneumonia. See Horses — Pleuro-pneumonia — Swine-plague.	
Poa, new species of, note on. 1901. p. 4	A3.4:35
Poa fendleriana and its allies (Williams). 1899.	A3.4:10
Pockels, F. Precipitation, theory of formation of, on mountain slopes. 1901. pp. 152, 306.	A29.6:29
Pocket gophers:	A29.0.29
Geomyidæ family, exclusive of species Thomomys, monographic	
revision of (Merriam). 1895	A5.5:8
Geomys, genus, from western Nebraska, description of (Merriam).	
1890. p. 51 Mississippi Valley (Bailey). p. 185	A5.5:4
Mississippi Valley (Bailey). p. 185	A1.1:892
same, p. 185. United States (Bailey). 1895.	A5.1:892
See also Gophers.	Au.a.u
Pocket mice:	•
North American, revision of (Merriam). 1889	A5.5:1
Of the genus Perognathus, revision of (Osgood). 1900	A5.5:18
Poëy, André. Agricultural meteorology. p. 97	A1.1:869
Same, p. 113	A1.1:870
Pogonip, notes on (Abbe). 1894. p. 76	A29.6:22
Same (Abbe). 1900. p. 450.  Poison oak, Cecidomyiid that lives on (Coquillett). 1895. p. 348.	A29.0:28
Poisoning by:	A0.1.1
	A7.3:137
Preserving in tin cans (Roos). 1892. p. 930. Wild cherry leaves (Evans). 1898. p. 16.	A1.9:103
Poisonous insects. See Centipedes — Scorpions — Tarantulas.	
Poisonous plants:	
Northern stock ranges (Chesnut). 1900. p. 305	A1.10:900
Principal, of United States (Chesnut). 1898	Ab.3:20
Some common (Chesnut). 1896. p. 137 Thirty, of United States (Chesnut). 1898.	A1.10:890
See also Stock.	A1.0.00
Poisonous spider in Madagascar. 1890. p. 273	A9.7:2
Poisons, destruction of sparrow by (Fisher). 1889. p. 174	<b>A5.3</b> :1
Poisons and poisoning of cattle (Atkinson). p. 63	A4.2:C29 <sup>2</sup>
Polar expeditions:	4000111
International, 1882–83 (Börgen). 1895. p. 469	A29.3:11*
South, notes on (Kimball). 1901. p. 421 Politis, J. E. Sugar, quick estimation of, by one-tenth copper solu-	A29.0:29
tion. 1890. p. 136.	A7.3:28
Pollen, xenia, or immediate effect of, in maize (Webber). 1900	A28.3:22
Pollination:	
Cross, relation to fruitfulness. 1897. p. 14	A1.9:65
Pear flowers (Waite). 1894	A28.3:5
Promotives injurious effects of sta (Martlan) 1000	A1.10;898
Premature, injurious effects of, etc. (Hartley). 1902	A 19.5:22
Polsley, F. A. Road system, better, simple plan for. 1901. p. 98.	A22.3:21
Polypetalæ of western Texas, description of (Coulter). 1891. p. 6	A6.5:2
Polysulphides, alkaline, use of, for grape mildew. 1885. p. 67	A6.3:2
Pomaceous fruits, pollination of (Waite). 1898. p. 167	A1.10:898
Pomological nomenclature, proposed code for (Craig). 1899. p. 130.	A10.3:65
See also Agricultural nomenclature.	
Pomological societies, list of: 1870	A1.8:4
1872	
1876	
See also American Pomological Society.	
Pomology Division, Agriculture Department: Work of, for farmer (Brackett). 1897. p. 111. Pomology in Wurtemberg (Schickler). 1870. p. 153	A20.
Work of, for farmer (Brackett). 1897. p. 111	A1.10:897
Pond pine Sas Marsh or pand pine 1870. p. 153	AZ7.9:8
Pond pine. See Marsh or pond pine.  Ponta Delgata Azorea storm at Dec 8 1894 (Abba) p. 508	<b>4 90 €.99</b>
Ponta Delgata, Azores, storm at, Dec. 8, 1894 (Abbe). p. 508 Pool, J. Forage plants of Arizona and New Mexico. 1888. p. 48	A & 3 · R
Poore, Ben: Perley. Agriculture of U. S., history of. p. 498	A1.1:866
Popenoe, E. A. Dissosteira longipennis, recent outbreak of, notes	
on. 1891. p. 41	A9.7:4

	Classification no.
Poplar gonioctena, report on (Cook). 1891. p. 67.	
Poppelsdorf, Prussia, royal agricultural academy at, report on. 1885. p. 7	A1.8:36
Poppy. See Opium poppy. Popular credit congress, Nimes, France, 1895, notice on. p. 26 Population. See Industrial population — Rural population.	A27.9:33
Porchinski, I. Tabanidæ (gadflies) and a very simple means of de-	
stroying them, translated by Peter Fireman. 1899. p. 25	A9.6:20
American, Italian interdiction of. 1889. p. 129	A27.9:27
Consumption of, in Saxony. 1887. p. 591. Examination of, for trichina, instructions for microscopists in.	A27.9:25
1896 Salted, of American origin, importation of, into France (Bouley).	A4.2:P42
	A4.3:30
1884. p. 186.  Trichinæ in. 1866. p. 428.	A27.9:4
Western trade. 1864. No. 6. p. 32	A27.9:2
Chicago, 1867. p. 372	A27.9:5
Cincinnati, 1833-67. p. 52	A27.9:5
Hogs and, in West (Emery). p. 198 Middle West, 1867-1868. p. 141	A1.1:805 A27.9:6
same, 1868. p. 15	A27.9:7
United States, 1878–87. p. 154	
same, 1901. p. 646	A4.1:901
West, 1864. No. 1, p. 34; No. 2, p. 22	A27.9:2 A27.9:23
Port au Prince, Hayti, meteorological observations at, monthly,	1127.0.20
notes on (Abbe). 1898. pp. 59, 103, 163, 212, 253, 406, 458 Port Carolina, South Australia, earthquakes, clouds, and gales at	A29.6:26
(Styles). 1902. p. 10.	A29.6:30
Porter, H. C. See, as joint author, Grindley, H. S. Porthetria dispar, introduction and spread of, in Massachusetts	
(Howard). 1897	A9.6:11
Portland, Maine, sugar-beet culture near (McMurtrie). 1879.	A1.6:28
Portland, Oreg., weather forecast district, monthly report of—	
AprJuly, 1900 (Beals)	
Sept., 1900 (Wollaber) Oct., 1900-Jan., 1901 (Beals)	A29.0:26 A29.6:
Feb., 1901 (Wollaber)	A29.6:29
MarJuly, 1901 (Beals)	<b>A29.6:29</b>
Sept., 1901-Oct., 1902 (Beals)	A29.6:
Porto Rico: Agricultural investigation in (Evans). 1901. p. 503	A 1 10:001
Agricultural resources and capabilities of, report on, with special	A1.10.801
reference to establishment of an agricultural experiment sta-	
tion on the island (Knapp). 1901	A10.2:P83
Agriculture in (Stone). 1898. p. 505.	A1.10:898
Animal industry of, notes on (Cook). p. 663	A4.1:899 A4.1:899
Animals and animal products, trade in. p. 405	A4.1.000
1900. p. 88	A9.6:22
Cattle of (Steddom). p. 512	A4.1:899
Changa or mole cricket in (Barrett). 1902.	A10.12:2
Climate and crop service in, notes on (Abbe). 1899. p. 258	A29.6:27 A29.6:26
Coccidæ collected in, by A. Busck in 1899, list of (Pergande and	
Cockerell). 1900. p. 92.	A9.6:22
Dairy industry and dairy products of (Pearson). p. 306	A4.1:901
Farmers' institute work accomplished in (True). 1902. p. 33	A10.3:120
Forest conditions of (Hill). 1899	A 10.0120 A 90 R 97
Hurricane of 1899 (Paullin). p. 443.	A29.6:28
Hurricane of 1899 (Paullin). p. 443. Hurricanes of (Alexander). 1902.	A29.3:32
Industries of, value of climate and crop and storm-warning services of Weather Bureau to (Noyes). 1902. p. 60	1000
ices of Weather Bureau to (Noyes). 1902. p. 60	A29.3:31

	Classification no.
Porto Rico—Continued	
Meteorological notes from (Geddings). 1900. p. 287	A29.6:28
Report on (Cline). 1901. p. 353  Rubber cultivation in (Cook). 1900.	A29.6:29
Trade of (Hitchcock). 1898	
Weights and measures in, notes on (Abbe). 1898. p. 567	A29,6:26
See also Hacienda Perla — San Juan.	
Porto Rico Agricultural Experiment Station:	
Annual report for 1901 (Gardner). 1902. p. 381.	
Publications of	A10.12:
Agriculture in. 1871. p. 141	A27.9:9
Icerya purchasi in, work against, with account of introduction	
from America of Novius cardinalis (Howard). 1898. p. 30	A9.6:18.
Novius cardinalis in, introduction from America, account of (Le	10.0.10
Cocq). 1898. p. 32. Post, J. W. Railroads, track on wooden and metal ties, expenses	A9.6:18
of maintenance of. p. 25	A13.3:3
Postal regulations. 1898. p. 674.	A1.10:898
Postal telegraph clock and weather bulletin, note on (Abbe). 1897.	
p. 351	A29.6:25
Poston, Charles D. Irrigation, report on. p. 193	
Pot culture, Wagner method of (Lindsey). 1897. p. 77	A10.0.7
(Hartwell), 1901, p. 73	A7.3:62
Pot experiments, vegetation house arranged for (Britton). 1901.	
p. 152	A10.3:99
Pot or box vs. plat experimentation (Thorne). 1891. p. 81	A10.5:3
Potash: As manure. 1870. p. 287	A 27 9.8
Available, soil solvents for (Huston and Bartlett). 1896. p. 91.	A7.3:49
Bichromate of, does cream lose fat on keeping for long time with	
and without? (Winton). 1894. p. 192	A7.3:43
Determination of— in fortilizers, some sources of arror in (Secuell and others)	
in fertilizers, some sources of error in (Scovell and others).  1896. p. 42	A7.3:49
1896. p. 42 in soils (Snyder). 1895. p. 48.	A7.3:47
same (Goss). 1895. p. $50$	A7.3:47
results on official samples and descriptions of methods em-	
ployed (Fassbender). 1894. p. 25 sources of errors in (Terne). 1891. p. 150	A7.3:43
Direct determination of, in soil solution (Peter). 1894. p. 65	A7.3:43
Estimation of, abstract of report on (committee of French Asso-	22110120
ciation of Sugar Chemists). p. 43	A7.3:16
Lindo-Gladding method of determining, report of use of sodium	17001
chloride in (Winton). 1891. p. 148	A7.3:31 A7 2:19
Muriate of, harmful effects of. 1897. p. 15	A1.9:56
See also Hawaiian soils—Suint.	
Potash committee, Association of Official Agricultural Chemists, re-	
port of:	A7 0.10
1887. p. 42 1888. p. 39	A7.3:10 A7.3:19
1889. p. 79	
	A7.3:28
1891. p. 144	
1892. p. 58 1893. p. 52	
1893. p. 52 1894. p. 17	
1895. p. 14	
1896. p. 27	A7.3:49
1897. p. 29	A7.3:51
1898. p. 29	
1899. p. 58	
1901. p. 17	
Potash and its function in agriculture (Wiley). 1896. p. 107	

Classification no.

	Classification :
Potassium, iodide of, treatment of lumpy jaw with (Nörgaard). p. 135.	A4.1:891-2
Same (Nörgaard), 1893, p. 39	A4.3:2
Potassium sulphide. See Nitrogen determination.	l
Potato:	
Composition of different parts of, and loss of nutrients during process of boiling (Frisby and Bryant). 1897. p. 25	 
Crop—	A10.5345
condition of, monthly notes on	A27.9:
statistics of annual	A27.1:
Cultivation of, experiments in. 1873. p. 194	A27.9:11
Culture of (Duggar). 1896	<b>A</b> 1.9:35
same, in Lake County, Ohio (Abbott). p. 295	A1.1:865
Digestibility of (Snyder). 1897. p. 20	A10.3:43
Diseased, how to use. 1865. No. 8. p. 27	A27.9:3
and their treatment (Galloway). 1899	A 1 Q-Q1
cause and cure of (Taylor). 1869. p. 64.	
some destructive, what they are and how to prevent them	
(Galloway). 1894	
Ensiling, desirability of. p. 21.	A1.9:79
Experiments with (Scovel). 1874. p. 331	A27.9:12
Extra-early, methods of securing (Smith). 1900. p. 6	A1.9:114
Feeding value of (Smith). p. 511	A4.1:898
Food for man. 1898. p. 11.	A1.9:84
Great Britain. 1894. p. 145	A21.9:33
Improved culture of. 1899. p. 9	A1 9.92
same. 1902. p. 6	A1.9:149
Large and small. 1866. p. 436	A27.9:4
Loss of nutrients in boiling (Snyder). 1897. p. 7	A10.3:43
same (Frisby and Bryant). 1897. p. 25	A10.3:43
Production, imports, and exports of, 1885-94. p. 142	A27.9:33
Raising in Tennessee (Callender). p. 657.	A1.1:880
Second-crop, for seed. 1899. p. 11.	
Starch from, manufacture of (Wiley). 1900	
Sweet, as food for hogs (Duggar). p. 501	A4 1.898
Value of, as food (Langworthy). 1900. p. 337.	A1.10:900
Yield of varieties of. 1868. p. 446.	A27.9:6
See also Crops, principal — Irish potato — Sweet potatoes.	
Potato beetle. See Colorado potato beetle.	
Potato blight and rot:	100 7 0
Combating, report on (Bünzli). 1891. p. 78	A28.5:6
Comparative test of fungicides in checking (Jones). 1893. p. 89. Microscopic investigations of (Taylor). 1872. p. 507	A 10.3:10 A 97 0.10
same (Taylor). 1873. p. 118.	
Treatment of. 1887	
See also Potato rot.	
Potato bread for horses in Germany (Hughes). p. 530	A4.1:899
Potato-bud weevil, report of (Chittenden). 1895. p. 350	A9.7:7
Potato bug:	4.07.0.0
Experiments with. 1868. p. 361	A27.9:6
Remedy for. 1868. p. 32.  See also Colorado potato beetle — Grosbeak, rose-breasted.	A27.9:0
Poteto flour or fering (Megree) n 300	A1.1:875
Potato fungus, microscopic observations of (Taylor):	111.1.0.0
1873. p. 251	A27.9:11
Potato fungus, microscopic observations of (Taylor): 1873. p. 251 1874. p. 273	A27.9:12
Potato rot injuries, experiment in preventing (Weed). 1889.p. 158	A28.5:5
See also Potato blight and rot.	
Potato scab:	110.50
Cause and means of prevention of. 1897. p. 20	A 1.9:00
Report on (Sorauer). 1889. p. 47	AR 2:8
Potato-tuber moth report of	
1892. p. 239	A9.7:4
1893 (Wight). p. 163	A9.7:5
· · · ·	

	Classification no
Potomac Flats, grasses and fodder plants on (Ball). 1900	A3.4:28
Potomac lands of Virginia for agricultural purposes. 1872. p. 16	A27.9:10
Potomac River, phenological observations on (Very). 1900. p. 154.	
Potter, C. S. Wool-growing, profits of. 1864. No. 1. p. 22	A27.9:3
Potter, Isaac B. Address of, before national road conference July,	A 00 9.10
1894. p. 50	A22.3:10
lamps at, list of (Dyar). 1891. p. 322.	A9.7:3
Poultry:	
Animal matter a necessity for. p. 16	A1.9:97
Bibliography of (Hawks). 1897.	A17.3:18
Condimental and medicinal foods for. 1901. p. 22	A1.9:144
Dressed, in foreign cities (Ashby). p. 330	
Enumeration of. 1880–90. p. 113.	A27.9:32
Foreign markets for. p. 321	A4.1:899
Great Britain (Halstead). p. 508.	A4.1:900
Industry, condition of (Dodge). p. 305	A4.1:891-2
Infectious diseases among, investigations concerning. 1895	
Markets of Paris (Ashby). p. 341	A4.1:899
Preparing for London markets (Lowe). p. 333	A4.1:899
for market. p. 345	A1.1:862
in Belgium (Lincoln). p. 506	A4.1:900
in France. 1873. p. 365	A27.9:11
on the farm (Salmon). 1901	A1.9:141
same, p. 235	A4.1:900
Sale of, in New York. 1869. p. 302*	A1.1:862
Tapeworms of, present knowledge of (Stiles). 1896. p. 9	A21.9:1 A4 Q-19
same, bibliography (Hassall). 1896. p. 81	A4.3:12
Young, gape disease of, in Kentucky (Garman). p. 504	
See also Chickens — Farm animals.	
Poultry associations, list of:	44.40.000
1898. p. 615	A1.10:898
1899. p. 697 1900. p. 652	
1901. p. 627	A1.10:901
Powdery mildew, treatment of nursery stock for (Galloway). 1891	
See also Grapes.	
Powell, E. P. Agriculture in rural schools. 1902. p. 109	A10.3:120
Powell, John Wesley, address of, before convention of National League for Good Roads, Washington. 1893. p. 17	A10.3:14
Powers, W. A. See, as joint author, Hopkins, Cyril George.	A10.0.14
Prairie dog:	
Destruction of, directions for (Merriam)	A5.4:32
Great Plains (Merriam). 1901. p. 257	A1.10:901
New, from Wyoming, description of (Merriam). 1890. p. 33	A5.5:4
Prairie ground squirrels. See Squirrels.  Prairie land, tile-horned prionus in, note on. 1886. p. 39	A9.3:12
Prairie pastures, worn-out native, renewing of (Williams)	
Prairie region:	
Forage conditions of (Smith). 1895. p. 309	A1.10:895
Timothy in (Williams). 1896. p. 147	A1.10:896
Prairie skies, nôte on (Abbe). 1898. p. 217	A29.6:26
Sheep on (Grinnell). p. 300	A1.1:862
Timber on (Edwards). p. 495	A1.1:862
Trees in, note on. 1866. p. 286	A27.9:4
See also Destitute regions.	
Pratt, Zadock. Dairy farming, with some account of farm of the	A1 1.00F
writer. p. 456	A1.1:865
Biological investigation of (Keewatin) Hudson Bay region. 1902.	A5.5:22
Jumping mice of genus Zapus, revision of. 1899	

Precipitation:  Average annual, in United States, 1871-1901 (Henry) p. 207. Boston, Mass., Chicago, Ill., Dodge City, Kans., Jupiter, Fla., St. Louis, Mo., and San Francisco, Callif., 1889-91. p. 108. Cycles of (Murdoch.) 1902. p. 482. Daily, tables of, at special river and rainfall stations of U. S. Weather Bureau, for 1893, 1894, 1895. 1900. Depth of, corresponding to given weights, table showing. 1892. Details of, at stations in Nebraska and South Dakota. 1894. Excessive, in United States (Henry). 1897. p. 13. Homogeneity and uniformity of, at Weather Bureau stations, notes on (Abbe). 1897. p. 249. Measurement of (Marvin). Monthly notes on, July, 1891-Oct., 1902. New York City, 1870-91 (Draper). p. 79. New York City, 1870-91 (Draper). p. 79. A29.6:29 Normal, in region of Great Lakes (Henry). 1899. p. 151. Pacific Northwest, and possibility of bigh water in Columbia [river] from melting snow in mountains (Pague). 1899. p. 252. Relation of water level of Great Salt Lake to (Murdoch). 1901. p. 22 Theory of formation of, on mountain slopes (Fockels). 1901. pp. 152, 306 True amount of, determination of, and its bearing on theories of forest influences (Abbe). 1893. p. 175. Washington, D. C., 1874-91. p. 79. See also Almospheric precipitation—Climatic charts—Climatology. Precalceous insects. See Insects. Preserved meats, adulterations of (Bigelow and others). 1902. p. 375. Pressey. H. A., and Myers, E. W. Hydrography of southern Appalachians. p. 123. Press bulletins, Forestry Division, Agriculture Department Department. Relations of weather officials with, how promoted (Sims). 1899. p. 74. Work of, for good roads (Battey). 1901. p. 89. Pressey, H. A., and Myers, E. W. Hydrography of southern Appalachians. p. 123. Price, Overton W.: Forestry, practical, in southern Appalachians now and under Government ownership and supervision. p. 61. Price, R. M. Vine disease in France. 1878. p. 172. Price, R. M. Peaches, classification of varieties of. 1898. p. 82. Prince, Edward area, Virginia, soil survey of (Mooney and Caine)		Index
Average annual, in United States, 1871–1901 (Henry) p. 207		Classification no.
St. Louis, Mo., and San Francisco, Calif., 1889-91. p. 108. A229.6:20 Cycles of (Murdoch). 1902. p. 482 Daily, tables of, at special river and rainfall stations of U. S. Weather Bureau, for 1893, 1894, 1895. 1900 Depth of, corresponding to given weights, table showing. 1892. A29.2:P91* Details of, at stations in Nebraska and South Dakota. 1804. A29.2:P91* Excessive, in United States (Henry). 1897. p. 13 Homogeneity and uniformity of, at Weather Bureau stations, notes on (Abbe). 1897. p. 249. Measurement of (Marvin). A29.6:25 Measurement of (Marvin). A29.6:25 Measurement of (Marvin). A29.6:26 Mew York City, 1870-91 (Draper). P. 79. A29.6:20 Normal, in region of Great Lakes (Henry). 1899. p. 151. A29.6:27 Pacific Northwest, and possibility of high water in Columbia [river] from melting snow in nountains (Pague). 1899. p. 252. A29.6:27 Relation of water level of Great Salt Lake to (Murdoch). 1901. p. 22 Theory of formation of, on mountains slopes (Pockele). 1901. pp. 152, 306. True amount of, determination of, and its bearing on theories of forest influences (Abbe). 1893. p. 175 Washington, D. C., 1874-91. p. 79. A29.6:20 Yeals Atmospheric precipitation—Climatic charts—Climatology. Predaceous insects. See Insects. Preserved meats, adulterations of (Bigelow and others). 1902. p. 375. A7.3:13¹0 Press. Good roads and (Battey). 1902. p. 55	Average annual, in United States, 1871–1901 (Henry) p. 207	A29.6:30
Cycles of (Murdoch). 1902. p. 482 Daily, tables of, at special river and rainfall stations of U. S. Weather Bureau, for 1893, 1894, 1895. 1900. Depth of, corresponding to given weights, table showing. 1892. 29:P91* Details of, at stations in Nebraska and South Dakota. 1894 Excessive, in United States (Henry). 1897. p. 13 Homogeneity and uniformity of, at Weather Bureau stations, notes on (Abbe). 1897. p. 29. Homogeneity and uniformity of, at Weather Bureau stations, notes on (Abbe). 1897. p. 29. Measurement of (Marvin) Monthly notes on, July, 189.—Oct., 1902. Mey York City, 1870-91 (Draper). p. 79. New York City, 1870-91 (Draper). p. 79. New York City, 1870-91 (Draper). p. 79. Pacific Northwest, and possibility of high water in Columbia [river] from melting snow in mountains (Pague). 1899. p. 252. Relation of water level of Great Salt Lake to (Murdoch). 1901. pp. 152, 306. True amount of, determination of, and its bearing on theories of forest influences (Abbe). 1893. p. 175.  Washington, D. C., 1874-91. p. 79. See also Atmospheric precipitation—Climatic charts—Climatology. Predaceous insects. See Insects. Preserved meats, adulterations of (Bigelow and others). 1902. p. 375. Presse: Good roads and (Battey). 1902. p. 55. Opinions of, concerning free distribution of seed by Agriculture Department. Relations of weather officials with, how promoted (Sims). Pressey, H. A., and Myers, E. W. Hydrography of southern Appalachians. p. 123. Pressey, H. A., and Myers, E. W. Hydrography of southern Appalachians in southern Appalachians in ward under Government ownership and supervision. p. 61. Price, Overton W. Forestry, practical, in southern Appalachians now and under Government ownership and supervision. p. 61. Price, G. G. See, as collector, Coulter, John M., and Rose, Joseph Nelson. Prince George County, Md., soil survey of (Mooney and Caine). Prince George County, Md., soil survey of (Mooney and Caine). Prince George County, Md., soil survey of (Mooney and Caine). Prince George County, Md., soil survey of (Mooney and	St Louis Mo. and San Francisco Calif. 1980 01 p. 109	A 90 B 90
Weather Bureau, for 1893, 1894, 1895. 1900.   A29.2:P91     Depth of, corresponding to given weights, table showing. 1892.   A29.2:P91     Details of, at stations in Nebraska and South Dakota. 1894   A29.2:P91     Excessive, in United States (Henry). 1897. p. 13     Homogeneity and uniformity of, at Weather Bureau stations, notes on (Abbe). 1897. p. 249.     Measurement of (Marvin)   A29.6:25     Measurement of (Marvin)   A29.6:25     Measurement of (Marvin)   A29.6:26     Mew York City, 1870-91 (Draper)   p. 79   A29.6:20     Normal, in region of Great Lakes (Henry). 1899. p. 151   A29.6:20     Normal, in region of Great Lakes (Henry). 1899. p. 151   A29.6:20     Normal, in region of Great Lakes (Henry). 1899. p. 152   A29.6:27     Pacific Northwest, and possibility of high water in Columbia [river] from melting snow in mountains (Pague). 1899. p. 252   A29.6:27     Relation of water level of Great Salt Lake to (Murdoch). 1901.     pp. 152, 306   True amount of, determination of, and its bearing on theories of forest influences (Abbe). 1893. p. 175   A29.6:29     Xeashington, D. C., 1874-91   p. 79   A29.6:29     Xeashington, D. C., 1874-91   p. 79   A29.6:20     Xeashington, D. C., 1874-91   A29.6:20	Cycles of (Murdoch). 1902. p. 482	
Details of, corresponding to given weights, table showing. 1892. A29.2:P91 Excessive, in United States (Henry). 1897. p. 13		A 90. 9. Do1 \$
Details of, at stations in Nebraska and South Dakota. 1894. A29.2:P911 Excessive, in United States (Henry). 1897. p. 13. A29.6:25 Homogeneity and uniformity of, at Weather Bureau stations, notes on (Abbe). 1897. p. 249. A29.6:25 Measurement of (Marvin). Monthly notes on, July, 1891-Oct., 1902. A29.6:25 New York City, 1870-91 (Draper). p. 79. A29.6:20 Normal, in region of Great Lakes (Henry). 1899. p. 151. A29.6:27 Pacific Northwest, and possibility of high water in Columbia [river] from melting snow in mountains (Pague). 1899. p. 252. A29.6:27 Relation of water level of Great Salt Lake to (Murdoch). 1901. p. 22 Theory of formation of, on mountain slopes (Pockels). 1901. pp. 152, 306. True amount of, determination of, and its bearing on theories of forest influences (Abbe). 1893. p. 175. A29.6:29 Team of the state		
Excessive, in United States (Henry). 1897. p. 13 Homogeneity and uniformity of, at Weather Bureau stations, notes on (Abbe). 1897. p. 249 Measurement of (Marvin) Monthly notes on, July, 1891-Oct., 1902 New York City, 1870-91 (Draper). p. 79 A29.6:27 Pacific Northwest, and possibility of high water in Columbia [river] from melting snow in mountains (Pague). 1899. p. 252 Relation of water level of Great Salt Lake to (Murdoch). 1901. p. 22 Theory of formation of, on mountain slopes (Pockels). 1901. pp. 152, 306 True amount of, determination of, and its bearing on theories of forest influences (Abbe). 1893. p. 175 Xes abso Atmospheric precipitation—Climatic charts—Climatology. Predaceous insects. See Insects. Preserved meats, adulterations of (Bigelow and others). 1902. p. 375 Press: Good roads and (Battey). 1902. p. 55 Opinions of, concerning free distribution of seed by Agriculture Department. Relations of weather officials with, how promoted (Sims). 1899. p. 74 Work of, for good roads (Battey). 1901. p. 89 Pressey, H. A., and Myers, E. W. Hydrography of southern Appalachians. p. 123 Prevost, L. Silk culture in California, letter on. 1807. p. 259 Price, M. M. Vine disease in France. 1873. p. 172 Price, Overton W: Forestry, practical, in southern Appalachians now and under Government ownership and supervision. p. 61	Details of, at stations in Nebraska and South Dakota. 1894	
Homogeneity and uniformity of, at Weather Bureau stations, notes on (Abbe). 1897. p. 249.  Measurement of (Marvin)  New York City, 1870-91 (Draper). p. 79  Normal, in region of Great Lakes (Henry). 1899. p. 151  A29.6:25  New York City, 1870-91 (Draper). p. 79  Pacific Northwest, and possibility of high water in Columbia [river] from melting snow in mountains (Pague). 1899. p. 252.  Relation of water level of Great Salt Lake to (Murdoch). 1901. p. 22  Theory of formation of, on mountain slopes (Pockels). 1901. pp. 152, 306  True amount of, determination of, and its bearing on theories of forest influences (Abbe). 1893. p. 175  See also Atmospheric precipitation—Climatic charts—Climatology.  Predaceous insects. See Insects. Preserved meats, adulterations of (Bigelow and others). 1902. p. 375  Press:  Good roads and (Battey). 1902. p. 55  Copinions of, concerning free distribution of seed by Agriculture Department.  Relations of weather officials with, how promoted (Sims). 1899. p. 77  Press bulletins, Forestry Division, Agriculture Department.  Pressey, H. A., and Myers, E. W. Hydrography of southern Appalachians. p. 123.  Prevost, L. Silk culture in California, letter on. 1887. p. 285  Price, R. M. Vine disease in France. 1873. p. 172.  Price, Overton W.:  Forestry, practical, in southern Appalachians. p. 357. Lumbering in southern Appalachians now and under Government ownership and supervision. p. 61.  Price, R. H. Peaches, classification of varieties of. 1898. p. 82. A27.9:51  Price, R. H. Peaches, classification of varieties of. 1898. p. 82. A10.3:49  Price, R. H. Peaches, classification of varieties of. 1898. p. 82. A10.3:49  Price, R. H. Peaches, classification of varieties of. 1898. p. 82. A10.3:49  Price, R. H. Peaches, classification of varieties of. 1898. p. 82. A10.3:49  Price, R. H. Peaches, classification of varieties of. 1898. p. 82. A10.3:49  Price, R. H. Peaches, classification of varieties of. 1898. p. 82. A10.3:49  Price, R. H. Peaches, classification of varieties of. 1898. p. 82. A10.3:49  Pri	Excessive, in United States (Henry). 1897. p. 13	
measurement of (Marvin) Monthly notes on, July, 1891—Oct., 1902 New York City, 1870—91 (Draper). p. 79 Normal, in region of Great Lakes (Henry). 1899. p. 151 Pacific Northwest, and possibility of high water in Columbia [river] from melting snow in mountains (Pague.) 1899. p. 252. Relation of water level of Great Salt Lake to (Murdoch). 1901. p. 152, 306 True amount of, determination of, and its bearing on theories of forest influences (Abbe). 1893. p. 175 Washington, D. C., 1874—91. p. 79 See also Atmospheric precipitation—Climatic charts—Climatology. Prestaceous insects. See Insects. Preserved meats, adulterations of (Bigelow and others). 1902. p. 375. Press: Good roads and (Battey). 1902. p. 55. Opinions of, concerning free distribution of seed by Agriculture Department Relations of weather officials with, how promoted (Sins). 1899. p. 74 Work of, for good roads (Battey). 1901. p. 89 Pressey, H. A., and Myers, E. W. Hydrography of southern Appalachians of Price, M. M. Vine disease in France. 1873. p. 172 Price, Overton W.: Forestry, practical, in southern Appalachians now and under Government ownership and supervision. p. 61 Price, R. H. Peaches, classification of varieties of. 1898. p. 82 Price lists of publications of Agriculture Department Prillieux. Edouard Ernest: Aiguillon, France, black-rot of grape vine, treatment of, experiments at, in 1888. p. 49 Price George County, Md., soil survey of (Mooney and Caine). p. 259 Prince George County, Md., soil survey of (Bonsteel and party). p. 173 Pringle, C. G. See, as collector, Coulter, John M., and Rose, Joseph Printing, Solandi [sun]. [Halsted.] 1894. p. 93 Printing office, Agriculture Department, report of minister of agriculture on. 1886. p. 83 Prince Edward area, Virginia, soil survey of (Bonsteel and party). p. 173 Pringle, C. G. See, as collector, Coulter, John M., and Rose, Joseph Printing, Solandi [sun]. [Halsted.] 1894. p. 93 Printing office, Agriculture Department, report of foreman (Skinper). 1894. p. 185 Privet web-worm, report on. 1888. p. 22. Pre	Homogeneity and uniformity of, at Weather Bureau stations, notes	
Monthly notes on, July, 1891—Oct., 1902.  New York City, 1870—91 (Draper) p. 79	on (Abbe). 1897. p. 249.	A29.6:25
New York City, 1870-91 (Draper), p. 79 Normal, in region of Great Lakes (Henry). 1899. p. 151 Pacific Northwest, and possibility of high water in Columbia [river] from melting snow in mountains (Pague). 1899. p. 252. Relation of water level of Great Salt Lake to (Murdoch). 1901. p. 22. Theory of formation of, on mountain slopes (Pockels). 1901. pp. 152, 306 True amount of, determination of, and its bearing on theories of forest influences (Abbe). 1893. p. 175 Washington, D. C., 1874-91. p. 79 Washington, D. C., 1874-91. p. 79 Washington, D. C., 1874-91. p. 79 Washington, D. C., 1874-91. p. 79 Wedaceous insects. See Insects. Preserved meats, adulterations of (Bigelow and others). 1902. p. 375 Press: Good roads and (Battey). 1902. p. 55 Opinions of, concerning free distribution of seed by Agriculture Department Relations of weather officials with, how promoted (Sims). 1899. p. 74 Work of, for good roads (Battey). 1901. p. 89 Press bulletins, Forestry Division, Agriculture Department Pressey, H. A., and Myers, E. W. Hydrography of southern Appalachians. p. 123 Price, M. W. Vine disease in France. 1873. p. 172 Price, Overton W.: Forestry, practical, in southern Appalachians. p. 357 Lumbering in southern Appalachians now and under Government ownership and supervision. p. 61 Price, R. H. Peaches, classification of varieties of, 1898. p. 82 Price lists of publications of Agriculture Department Agiguillon, France, black-rot of grape vine, treatment of, experiments at, in 1888. p. 49 Price Edward area, Virginia, soil survey of (Mooney and Caine) p. 259 Prince George County, Md., soil survey of (Mooney and Caine) p. 259 Prince George County, Md., soil survey of (Mooney and Caine) p. 259 Prince George County, Md., soil survey of (Mooney and Caine) p. 259 Prince George County, Md., soil survey of (Mooney and Caine) p. 259 Prince George County, Md., soil survey of (Mooney and Caine) p. 259 Prince George County, Md., soil survey of (Mooney and Caine) p. 259 Prince George County, Mc., soil survey of (Mooney and Caine) p. 259		
Normal, in region of Great Lakes (Henry). 1899. p. 151		
Pacific Northwest, and possibility of high water in Columbia [river] from melting enow in mountains (Pague). 1899. p. 252. Relation of water level of Great Salt Lake to (Murdoch). 1901. p. 22. Theory of formation of, on mountain slopes (Pockels). 1901. pp. 152, 306. True amount of, determination of, and its bearing on theories of forest influences (Abbe). 1893. p. 175. A29.6:29  True amount of, determination of, and its bearing on theories of forest influences (Abbe). 1893. p. 175. A29.6:20  Washington, D. C., 1874-91. p. 79. A29.6:20  See also Atmospheric precipitation—Climatic charts—Climatology.  Predaceous insects. See Insects.  Preserved meats, adulterations of (Bigelow and others). 1902. p. 375. Press:  Good roads and (Battey). 1902. p. 55. A22.3:22  Opinions of, concerning free distribution of seed by Agriculture Department. Relations of weather officials with, how promoted (Sims). 1899. A29.3:24  Work of, for good roads (Battey). 1901. p. 89. A29.3:24  Work of, for good roads (Battey). 1901. p. 89. A29.3:24  Pressey, H. A., and Myers, E. W. Hydrography of southern Appalachians. p. 123  Prevost, L. Silk culture in California, letter on. 1867. p. 285. A27.9:5  Price, N. M. Vine disease in France. 1873. p. 172. A27.9:1  Price, Overton W.:  Forestry, practical, in southern Appalachians. p. 357. A1.0:900  Lumbering in southern Appalachians now and under Government ownership and supervision. p. 61. A21.2:Ap4²  Price, R. H. Peaches, classification of varieties of. 1898. p. 82. A7.9:11  Prillieux. Edouard Ernest:  Aiguillon, France, black-rot of grape vine, treatment of, experiments at, in 1888. p. 49. A21.8:  Prillieux. Edoward area, Virginia, soil survey of (Mooney and Caine). p. 259  Prince George County, Md., soil survey of (Bonsteel and party). p. 173  Pringle, C. G. See, as collector, Coulter, John M., and Rose, Joseph Nelson.  Printing, Solandi [sun]. [Halsted.] 1894. p. 93. A11.3:894  A26.5:901  A29.6:29  A29.6:29  A29.6:29  A29.6:20  A29.6:20  A29.6:20  A29.6:20  A29.6:20  A29.6:20  A29.6:20  A29.6:20		
[river] from melting snow in mountains (Pague). 1899. p. 252. Relation of water level of Great Salt Lake to (Murdoch). 1901. pp. 152, 306 True amount of, determination of, and its bearing on theories of forest influences (Abbe). 1893. p. 175		A20.0.21
Theory of formation of, on mountain slopes (Pockels). 1901. pp. 152, 306 True amount of, determination of, and its bearing on theories of forest influences (Abbe). 1893. p. 175.  Washington, D. C., 1874-91. p. 79.  See also Atmospheric precipitation—Climatic charts—Climatology.  Predaceous insects. See Insects. Preserved meats, adulterations of (Bigelow and others). 1902. p. 375.  Press: Good roads and (Battey). 1902. p. 55. Opinions of, concerning free distribution of seed by Agriculture Department.  Relations of weather officials with, how promoted (Sims). 1899. p. 74 Work of, for good roads (Battey). 1901. p. 89 Press bulletins, Forestry Division, Agriculture Department.  Pressev, H. A., and Myers, E. W. Hydrography of southern Appalachians. p. 123 Prevost, L. Silk culture in California, letter on. 1887. p. 285 Price, M. M. Vine disease in France. 1873. p. 172.  Price, Overton W.:  Forestry, practical, in southern Appalachians. p. 357. Lumbering in southern Appalachians now and under Government ownership and supervision. p. 61.  Price, R. H. Peaches, classification of varieties of. 1898. p. 82.  Prillieux, Edouard Ernest:  Alguillon, France, black-rot of grape vine, treatment of, experiment at, in 1888. p. 49.  Grape mildew, treatment of, in Médoc, report of minister of agriculture on. 1886. p. 83  Prince Edward area, Virginia, soil survey of (Mooney and Caine). p. 259  Prince George County, Md., soil survey of (Bonsteel and party). p. 173  Pringle, C. G. See, as collector, Coulter, John M., and Rose, Joseph Nelson.  Printing office, Agriculture Department, report of foreman (Skinner.) 1894. p. 185  Privet web-worm, report on. 1888. p. 22.  Al. 1.1894  Ap. 3.12  Ap. 3.12  Ap. 3.12  Ap. 3.13  Ap. 3.24  Ap. 3.12  Ap. 3.13  Ap. 3.24  Ap. 3.12  Ap. 3.13  Ap. 3.24  Ap. 3.11  Ap. 3.26  Ap. 3.12  Ap. 3.25  Ap. 3.26  Ap. 3.21  Ap. 3.21  Ap. 3.26  Ap. 3.21  Ap. 3.22  Ap. 3.23  Ap. 3.22  Ap. 3.23  Ap. 3.24  Ap. 3.21  Ap. 3.26  Ap. 3.21  Ap. 3.22  Ap. 3.22	[river] from melting snow in mountains (Pague). 1899. p. 252.	A29.6:27
True amount of, determination of, and its bearing on theories of forest influences (Abbe). 1893. p. 175	, p. 22	A29.6:29
True amount of, determination of, and its bearing on theories of forest influences (Abbe). 1893. p. 175.  Washington, D. C., 1874-91. p. 79.  See abo Atmospheric precipitation—Climatic charts—Climatology.  Predaceous insects. See Insects. Pressrved meats, adulterations of (Bigelow and others). 1902. p. 375. Presss:  Good roads and (Battey). 1902. p. 55.  Opinions of, concerning free distribution of seed by Agriculture Department.  Relations of weather officials with, how promoted (Sims). 1899. p. 74.  Work of, for good roads (Battey). 1901. p. 89.  Pressey. H. A., and Myers, E. W. Hydrography of southern Appalachians. p. 123.  Prevost, L. Silk culture in California, letter on. 1867. p. 285.  Price, Overton W.:  Forestry, practical, in southern Appalachians. p. 357.  Lumbering in southern Appalachians. p. 357.  Lumbering in southern Appalachians now and under Government ownership and supervision. p. 61.  Price, R. H. Peaches, classification of varieties of. 1898. p. 82.  Price lists of publications of Agriculture Department  Aginallon, France, black-rot of grape vine, treatment of, experiments at, in 1888. p. 49.  Grape mildew, treatment of, in Médoc, report of minister of agriculture on. 1886. p. 83.  Prince Edward area, Virginia, soil survey of (Mooney and Caine). p. 259.  Prince George County, Md., soil survey of (Bonsteel and party). p. 173.  Pringle, C. G. See, as collector, Coulter, John M., and Rose, Joseph Nelson.  Printing, Solandi [sun]. [Halsted.] 1894. p. 93.  Privet web-worm, report on. 1888. p. 22.  Atmospheric rolls, horizontal, report on. 1886. p. 42.  Atmospheric rolls, horizontal, report on. 1896. p. 367.  Atmospheric rolls, horizontal, report on. 1896. p. 367.  A29.6:24		
forest influences (Abbe). 1893. p. 175		A29.6:29
Washington, D. C., 1874–91. p. 79.  See also Atmospheric precipitation—Climatic charts—Climatology.  Predaceous insects. See Insects. Preserved meats, adulterations of (Bigelow and others). 1902. p. 375.  Press: Good roads and (Battey). 1902. p. 55. Opinions of, concerning free distribution of seed by Agriculture Department	forest influences (Abba) 1902 m 175	A 10 0.7
See abo Atmospheric precipitation—Climatic charts—Climatology.  Predaceous insects. See Insects.  Preserved meats, adulterations of (Bigelow and others). 1902. p. 375.  Press:  Good roads and (Battey). 1902. p. 55.  Opinions of, concerning free distribution of seed by Agriculture Department.  Relations of weather officials with, how promoted (Sims). 1899. p. 74.  Work of, for good roads (Battey). 1901. p. 89.  Press bulletins, Forestry Division, Agriculture Department.  Pressey, H. A., and Myers, E. W. Hydrography of southern Appalachians. p. 123.  Prevost, L. Silk culture in California, letter on. 1867. p. 285.  Price, M. W. Vine disease in France. 1873. p. 172.  Price, Overton W.:  Forestry, practical, in southern Appalachians. p. 357.  Lumbering in southern Appalachians now and under Government ownership and supervision. p. 61.  Price, R. H. Peaches, classification of varieties of. 1898. p. 82.  Price lists of publications of Agriculture Department.  Prillieux, Edouard Ernest:  Alguillon, France, black-rot of grape vine, treatment of, experiments at, in 1888. p. 49.  Prince Edward area, Virginia, soil survey of (Mooney and Caine). p. 259.  Prince George County, Md., soil survey of (Mooney and Caine). p. 259.  Prince George County, Md., soil survey of (Bonsteel and party).  Pringle, C. G. See, as collector, Coulter, John M., and Rose, Joseph Nelson.  Privet web-worm, report on. 1888. p. 22.  Privet web-worm, report on. 1888. p. 22.  Probert, John T., short blography of. 1902. p. 450.  Atmospheric rolls, horizontal, report on. 1896. p. 367.  Atmospheric rolls, horizontal, report on. 1896. p. 367.  A22.3:22  A22.3:22  A22.3:22  A22.3:23  A22.3:23  A22.3:24  A22.3:21  A22.3:24  A22.3:22  A22.3:25  A22.3:25  A22.3:25  A22.3:22  A1.2:Repairation of processor of southern Appalachians. p. 357.  A1.10:900  A1.2:Ap4*  A1.2:Ap4*  A1.2:Ap4*  A1.2:Ap4*  A1.2:Ap4*  A1.2:Ap4*  A1.2:Ap4*  A23.6:3:10  A6.3:10  A6.3:10  A6.3:10  A6.3:20	Washington D C 1874_91 p 79	
tology.  Predaceous insects. See Insects.  Preserved meats, adulterations of (Bigelow and others). 1902. p. 375.  Press:  Good roads and (Battey). 1902. p. 55.  Opinions of, concerning free distribution of seed by Agriculture Department.  Relations of weather officials with, how promoted (Sims). 1899. p. 74.  Work of, for good roads (Battey). 1901. p. 89.  Press bulletins, Forestry Division, Agriculture Department.  Pressey, H. A., and Myers, E. W. Hydrography of southern Appalachians. p. 123.  Prevost, L. Silk culture in California, letter on. 1867. p. 285.  Price, Overton W.:  Forestry, practical, in southern Appalachians. p. 357.  Lumbering in southern Appalachians now and under Government ownership and supervision. p. 61.  Price, R. H. Peaches, classification of varieties of. 1898. p. 82.  Price lists of publications of Agriculture Department.  Prillieux, Edouard Ernest:  Aiguillon, France, black-rot of grape vine, treatment of, experiment at, in 1888. p. 49.  Grape mildew, treatment of, in Médoc, report of minister of agriculture on. 1886. p. 83.  Prince Edward area, Virginia, soil survey of (Mooney and Caine). p. 259.  Pringle, C. G. See, as collector, Coulter, John M., and Rose, Joseph Nelson.  Printing, Solandi [sun]. [Halsted.] 1894. p. 93.  Printing office, Agriculture Department, report of foreman (Skinner.) 1894. p. 185.  Privet web-worm, report on. 1888. p. 22.  Privet web-worm, report on. 1888. p. 22.  Atmospheric rolls, horizontal, report on. 1896. p. 367.  A22.3:22  A12:3:23  A22.3:23  A12:3:23  A12:4:3:23  A12:3:23  A12:3:23  A12:4:3:23  A12:4:3:23  A12:4:3:23  A12:4:3:23  A12:4:3:21  A13.6:  Privesty, p. 13-  A10:3:09  A12:Ap4  A1.1:3:44  A1.	See also Atmospheric precipitation—Climatic charts—Clima-	A20.0.20
Predaceous insects. See Insects. Preserved meats, adulterations of (Bigelow and others). 1902. p. 375. Press: Good roads and (Battey). 1902. p. 55		
Press: Good roads and (Battey). 1902. p. 55		
Good roads and (Battey). 1902. p. 55		A7.3:13 <sup>10</sup>
Opinions of, concerning free distribution of seed by Agriculture Department Relations of weather officials with, how promoted (Sims). 1899. p. 74		1.00.0.00
Relations of weather officials with, how promoted (Sims). 1899. p. 74	Opinions of concerning free distribution of good by Agriculture	A22.3:22
Relations of weather officials with, how promoted (Sims). 1899. p. 74  Work of, for good roads (Battey). 1901. p. 89  Press bulletins, Forestry Division, Agriculture Department		A1 2.8232
Work of, for good roads (Battey). 1901. p. 89		111.2.020
Press bulletins, Forestry Division, Agriculture Department Pressey, H. A., and Myers, E. W. Hydrography of southern Appalachians. p. 123 Prevost, L. Silk culture in California, letter on. 1867. p. 285 Price, M. M. Vine disease in France. 1873. p. 172 Price, Overton W.:  Forestry, practical, in southern Appalachians. p. 357 Lumbering in southern Appalachians now and under Government ownership and supervision. p. 61 Price, R. H. Peaches, classification of varieties of. 1898. p. 82 Price lists of publications of Agriculture Department Prillieux, Edouard Ernest: Aiguillon, France, black-rot of grape vine, treatment of, experiments at, in 1888. p. 49 Grape mildew, treatment of, in Médoc, report of minister of agriculture on. 1886. p. 83 Prince Edward area, Virginia, soil survey of (Mooney and Caine). p. 259 Prince George County, Md., soil survey of (Bonsteel and party). p. 173 Pringle, C. G. See, as collector, Coulter, John M., and Rose, Joseph Nelson. Printing, Solandi [sun]. [Halsted.] 1894. p. 93 Privet web-worm, report on. 1888. p. 22 Printing office, Agriculture Department, report of foreman (Skinner.) 1894. p. 185 Privet web-worm, report on. 1888. p. 22 Proctor, Frank W.:  Atmospheric rolls, horizontal, report on. 1896. p. 367  A1.13.6: A1.2:Ap4² A27.9:5 A27.9:1 A27.9:1 A27.9:1 A27.9:1 A27.9:1 A27.9:1 A27.9:1 A27.9:1 A27.9:1 A27.9:1 A27.9:1 A27.9:1 A27.9:1 A27.9:1 A27.9:1 A27.9:1 A27.9:1 A27.9:5 A27.9:5 A27.9:5 A27.9:5 A27.9:5 A27.9:5 A27.9:5 A27.9:5 A27.9:5 A27.9:5 A27.9:5 A27.9:5 A27.9:5 A27.9:5 A27.9:1 A2.2.Ap4² A1.10:900 A1.2:Ap4² A10.3:49 A21.8: A1.10:900 A1.2:Ap4² A10.3:49 A21.8: A1.2:Ap4² A10.3:49 A21.8: A1.10:900 A1.2:Ap4² A10.3:49 A21.8: A1.2:Ap4² A10.3:49 A21.8: A1.10:900 A1.2:Ap4² A10.3:49 A21.8: A1.2:Ap4² A10.3:49 A21.8: A1.10:900 A1.2:Ap4² A10.3:49 A21.8: A1.10:900 A1.2:Ap4² A10.3:49 A21.8: A1.10:900 A1.2:Ap4² A10.3:49 A21.8: A1.10:900 A1.2:Ap4² A21.8: A6.3:10 A6.3:10 A6.3:20 A6.3:2	p. 74	A29.3:24
Pressey, H. A., and Myers, E. W. Hydrography of southern Appalachians. p. 123.  Prevost, L. Silk culture in California, letter on. 1867. p. 285	Work of, for good roads (Battey). 1901. p. 89	A22.3:21
lachians. p. 123	Press bulletins, Forestry Division, Agriculture Department	A13.6:
Prevost, L. Silk culture in California, letter on. 1867. p. 285		A1 9. A = 12
Price, M. M. Vine disease in France. 1873. p. 172	Prevost L. Silk culture in California letter on 1867 n 285	A27.9.5
Price, Overton W.: Forestry, practical, in southern Appalachians. p. 357. Lumbering in southern Appalachians now and under Government ownership and supervision. p. 61.  Price, R. H. Peaches, classification of varieties of. 1898. p. 82. Price lists of publications of Agriculture Department.  Prillieux, Edouard Ernest: Aiguillon, France, black-rot of grape vine, treatment of, experiments at, in 1888. p. 49. Grape mildew, treatment of, in Médoc, report of minister of agriculture on. 1886. p. 83.  Prince Edward area, Virginia, soil survey of (Mooney and Caine). p. 259.  Prince George County, Md., soil survey of (Bonsteel and party). p. 173.  Pringle, C. G. See, as collector, Coulter, John M., and Rose, Joseph Nelson.  Printing, Solandi [sun]. [Halsted.] 1894. p. 93.  Printing office, Agriculture Department, report of foreman (Skinner.) 1894. p. 185.  Privet web-worm, report on. 1888. p. 22.  Proctor, Frank W.:  Atmospheric rolls, horizontal, report on. 1896. p. 367.  A1.10:900  A1.2:Ap4²  A10.3:49  A21.8:  A6.3:10  A6.3:20  A6.3:2  A26.5:901¹  A26.5:901¹  A26.5:901¹  A26.5:901¹  A26.5:901¹  A26.5:901²	Price, M. M. Vine disease in France. 1873. p. 172.	A27.9:11
Lumbering in southern Appalachians now and under Government ownership and supervision. p. 61		
ment ownership and supervision. p. 61  Price, R. H. Peaches, classification of varieties of. 1898. p. 82  Price lists of publications of Agriculture Department  Prillieux, Edouard Ernest:  Aiguillon, France, black-rot of grape vine, treatment of, experiments at, in 1888. p. 49  Grape mildew, treatment of, in Médoc, report of minister of agriculture on. 1886. p. 83  Prince Edward area, Virginia, soil survey of (Mooney and Caine).  p. 259  Prince George County, Md., soil survey of (Bonsteel and party).  p. 173  Pringle, C. G. See, as collector, Coulter, John M., and Rose, Joseph Nelson.  Printing, Solandi [sun]. [Halsted.] 1894. p. 93  Printing office, Agriculture Department, report of foreman (Skinner.) 1894. p. 185  Al.1:894  Privet web-worm, report on. 1888. p. 22  Probert, John T., short biography of. 1902. p. 450  Proconia undata in injurious numbers, note on. 1886. p. 42  Al.2:Ap4  Al.0.3:49  Al.0.3:40  Al.0.3:20  Al.	Forestry, practical, in southern Appalachians. p. 357	A1.10:900
Price, R. H. Peaches, classification of varieties of. 1898. p. 82	Lumbering in southern Appalachians now and under Govern-	470449
Price lists of publications of Agriculture Department Prillieux, Edouard Ernest: Aiguillon, France, black-rot of grape vine, treatment of, experiments at, in 1888. p. 49. Grape mildew, treatment of, in Médoc, report of minister of agriculture on. 1886. p. 83  Prince Edward area, Virginia, soil survey of (Mooney and Caine). p. 259  Prince George County, Md., soil survey of (Bonsteel and party). p. 173  Pringle, C. G. See, as collector, Coulter, John M., and Rose, Joseph Nelson.  Printing, Solandi [sun]. [Halsted.] 1894. p. 93.  Printing office, Agriculture Department, report of foreman (Skinner.) 1894. p. 185.  Privet web-worm, report on. 1888. p. 22.  Probert, John T., short biography of. 1902. p. 450.  Proconia undata in injurious numbers, note on. 1886. p. 42.  Atmospheric rolls, horizontal, report on. 1896. p. 367.  A21.8:  A6.3:10  A6.3:10  A6.3:2  A26.5:901  A26.5:901  A26.5:901  A26.5:901  A26.5:901  A26.5:901  A26.5:901  A26.5:901  A26.3:20  A26.5:901	ment ownership and supervision. p. 61.	A1.2:Ap4*
Prillieux, Edouard Ernest: Aiguillon, France, black-rot of grape vine, treatment of, experiments at, in 1888. p. 49.  Grape mildew, treatment of, in Médoc, report of minister of agriculture on. 1886. p. 83.  Prince Edward area, Virginia, soil survey of (Mooney and Caine). p. 259.  Prince George County, Md., soil survey of (Bonsteel and party). p. 173.  Pringle, C. G. See, as collector, Coulter, John M., and Rose, Joseph Nelson.  Printing, Solandi [sun]. [Halsted.] 1894. p. 93.  Printing office, Agriculture Department, report of foreman (Skinner.) 1894. p. 185.  Privet web-worm, report on. 1888. p. 22.  Probert, John T., short biography of. 1902. p. 450.  Proconia undata in injurious numbers, note on. 1886. p. 42.  Proctor, Frank W.:  Atmospheric rolls, horizontal, report on. 1896. p. 367.  A6.3:10  A6.3:10  A6.3:20  A26.5:901		
Aiguillon, France, black-rot of grape vine, treatment of, experiments at, in 1888. p. 49.  Grape mildew, treatment of, in Médoc, report of minister of agriculture on. 1886. p. 83.  Prince Edward area, Virginia, soil survey of (Mooney and Caine). p. 259.  Prince George County, Md., soil survey of (Bonsteel and party). p. 173.  Pringle, C. G. See, as collector, Coulter, John M., and Rose, Joseph Nelson.  Printing, Solandi [sun]. [Halsted.] 1894. p. 93.  Printing office, Agriculture Department, report of foreman (Skinner.) 1894. p. 185.  Privet web-worm, report on. 1888. p. 22.  Probert, John T., short biography of. 1902. p. 450.  Proconia undata in injurious numbers, note on. 1886. p. 42.  Proctor, Frank W.:  Atmospheric rolls, horizontal, report on. 1896. p. 367.  A6.3:10  A6.3:10  A6.3:20  A26.5:901  A26.5:901  A26.5:901  A26.5:901  A26.5:901  A26.5:901  A26.5:901  A26.5:901  A26.3:20  A26.5:901		1121.0.
ments at, in 1888. p. 49.  Grape mildew, treatment of, in Médoc, report of minister of agriculture on. 1886. p. 83.  Prince Edward area, Virginia, soil survey of (Mooney and Caine). p. 259.  Prince George County, Md., soil survey of (Bonsteel and party). p. 173.  Pringle, C. G. See, as collector, Coulter, John M., and Rose, Joseph Nelson.  Printing, Solandi [sun]. [Halsted.] 1894. p. 93.  Printing office, Agriculture Department, report of foreman (Skinner.) 1894. p. 185.  Privet web-worm, report on. 1888. p. 22.  Probert, John T., short biography of. 1902. p. 450.  Proconia undata in injurious numbers, note on. 1886. p. 42.  Proctor, Frank W.:  Atmospheric rolls, horizontal, report on. 1896. p. 367.  A6.3:10  A6.3:10  A6.3:2  A26.5:901		
culture on. 1886. p. 83  Prince Edward area, Virginia, soil survey of (Mooney and Caine). p. 259  Prince George County, Md., soil survey of (Bonsteel and party). p. 173  Pringle, C. G. See, as collector, Coulter, John M., and Rose, Joseph Nelson.  Printing, Solandi [sun]. [Halsted.] 1894. p. 93  Printing office, Agriculture Department, report of foreman (Skinner.) 1894. p. 185  Privet web-worm, report on. 1888. p. 22  Probert, John T., short biography of. 1902. p. 450  Proconia undata in injurious numbers, note on. 1886. p. 42  Proctor, Frank W.:  Atmospheric rolls, horizontal, report on. 1896. p. 367  A26.5:901	ments at, in 1888. p. 49.	A6.3:10
Prince Edward area, Virginia, soil survey of (Mooney and Caine). p. 259  Prince George County, Md., soil survey of (Bonsteel and party). p. 173  Pringle, C. G. See, as collector, Coulter, John M., and Rose, Joseph Nelson.  Printing, Solandi [sun]. [Halsted.] 1894. p. 93.  Printing office, Agriculture Department, report of foreman (Skinner.) 1894. p. 185.  Privet web-worm, report on. 1888. p. 22.  Probert, John T., short biography of. 1902. p. 450.  Proconia undata in injurious numbers, note on. 1886. p. 42.  Atmospheric rolls, horizontal, report on. 1896. p. 367.  A26.5:901	Grape mildew, treatment of, in Médoc, report of minister of agri-	4000
Prince George County, Md., soil survey of (Bonsteel and party). p. 173  Pringle, C. G. See, as collector, Coulter, John M., and Rose, Joseph Nelson.  Printing, Solandi [sun]. [Halsted.] 1894. p. 93  Printing office, Agriculture Department, report of foreman (Skinner.) 1894. p. 185  Privet web-worm, report on. 1888. p. 22  Probert, John T., short biography of. 1902. p. 450  Proconia undata in injurious numbers, note on. 1886. p. 42  Proctor, Frank W.:  Atmospheric rolls, horizontal, report on. 1896. p. 367  A26.5:901	Prince Edward area Virginia goil survey of (Mooney and Caine)	A6.3:2
Pringle, C. G. See, as collector, Coulter, John M., and Rose, Joseph Nelson.  Printing, Solandi [sun]. [Halsted.] 1894. p. 93.  Printing office, Agriculture Department, report of foreman (Skinner.) 1894. p. 185.  Privet web-worm, report on. 1888. p. 22.  Probert, John T., short biography of. 1902. p. 450.  Proconia undata in injurious numbers, note on. 1886. p. 42.  Proctor, Frank W.:  Atmospheric rolls, horizontal, report on. 1896. p. 367.  A26.5:901.  A26.5:901.	p. 259	A 26.5:901 1
Pringle, C. G. See, as collector, Coulter, John M., and Rose, Joseph Nelson.  Printing, Solandi [sun]. [Halsted.] 1894. p. 93.  Printing office, Agriculture Department, report of foreman (Skinner.) 1894. p. 185.  Privet web-worm, report on. 1888. p. 22.  Probert, John T., short biography of. 1902. p. 450.  Proconia undata in injurious numbers, note on. 1886. p. 42.  Proctor, Frank W.:  Atmospheric rolls, horizontal, report on. 1896. p. 367.  A26.5:901.  A26.5:901.	Prince George County, Md., soil survey of (Bonsteel and party).	
Nelson. Printing, Solandi [sun]. [Halsted.] 1894. p. 93	p. 1/3	A26.5:901 <sup>1</sup>
Printing, Solandi [sun]. [Halsted.] 1894. p. 93.  Printing office, Agriculture Department, report of foreman (Skinner.) 1894. p. 185.  Privet web-worm, report on. 1888. p. 22.  Probert, John T., short biography of. 1902. p. 450.  Proconia undata in injurious numbers, note on. 1886. p. 42.  Proctor, Frank W.:  Atmospheric rolls, horizontal, report on. 1896. p. 367.  A10.3:20  A10.3:20  A10.3:20  A10.3:20  A29.6:30  A29.6:30  A9.3:12		
Printing office, Agriculture Department, report of foreman (Skinner.) 1894. p. 185.  Privet web-worm, report on. 1888. p. 22.  Probert, John T., short biography of. 1902. p. 450.  Proconia undata in injurious numbers, note on. 1886. p. 42.  Proctor, Frank W.:  Atmospheric rolls, horizontal, report on. 1896. p. 367.  A1.1:894  A9.7:1  A29.6:30  A9.3:12		A 10 3.20
ner.) 1894. p. 185.  Privet web-worm, report on. 1888. p. 22.  Probert, John T., short biography of. 1902. p. 450.  Proconia undata in injurious numbers, note on. 1886. p. 42.  Proctor, Frank W.:  Atmospheric rolls, horizontal, report on. 1896. p. 367.  A1.1:894  A9.7:1  A29.6:30  A9.3:12	Printing office, Agriculture Department, report of foreman (Skin-	210.0.20
Privet web-worm, report on. 1888. p. 22.  Probert, John T., short biography of. 1902. p. 450.  Proconia undata in injurious numbers, note on. 1886. p. 42.  Proctor, Frank W.:  Atmospheric rolls, horizontal, report on. 1896. p. 367.  A29.6:24	" \ 4044" 40H = ' -	A1.1:894
Proconia undata in injurious numbers, note on. 1886. p. 42 A9.3:12 Proctor, Frank W.:  Atmospheric rolls, horizontal, report on. 1896. p. 367	Privet web-worm, report on. 1888. p. 22.	A9.7:1
Proctor, Frank W.: Atmospheric rolls, horizontal, report on. 1896. p. 367	Propert, John T., short biography of. 1902. p. 450	A29.6:30
Atmospheric rolls, horizontal, report on. 1896. p. 367	Proctor Frank W.	A9.3:12
Wind nomenclature, report on. 1897. p. 54	Atmospheric rolls, horizontal, report on, 1896, p. 367	A29.6:24
	Wind nomenclature, report on. 1897. p. 54.	A29.6:25

	Index Classification no.
Public domain—Continued	Vimonime avior avi
Timber or forests on, legislation for preservation of (Egleston).  1888. p. 212	A13.3:2
Public health:	
Relation of bovine tuberculosis to (Salmon). 1901	
Spraying fruits in its relation to, special consideration of. 1892	A1.9:7
Public improvement, citizen's duty to (Moses). 1902. p. 36	A22.3:23 A1.10:901
Public lands. See Lands—Public domain.	
Public Road Inquiries Office, Agriculture Department (formerly	A22.
Office of Road Inquiry) Public roads. See Roads.	A22.
Public schools, meteorology in, how much should be attempted,	
methods of teaching (Chaffee). 1902. p. 85.	A29.3:31
Publications Division, Agriculture Department (formerly Division of Records and Editing):	A21.
Work of, for farmer (Hill). 1897. p. 204.	A1.10:897
Puccinia, new species of, descriptions of (Tracy). 1891. p. 281	
Puccinia and phragmidium, relationship of (De Lagerheim). 1891.	400 E.O
p. 111 Puerto Rico. See Porto Rico.	A28.5:6
Pullen, Isaac. Peach, propagation, cultivation, varieties, etc. p. 191.	A1.1:865
Pulvinaria acericola (W. & R.) and P. innumerabilis rathy. (How-	AQ 8.17
ard). 1898. p. 57.  Pulvinarias, two most abundant on maple (Howard). 1900. p. 7.  Pump spraying without (Aldrich):	A9.6:22
I dilly, spicyting without (literature).	
1894. p. 114	A9.7:7
1895. p. 28	A9.6:2
Punjab. India. Cotton crop of. 1889. p. 163	A27.9:28
Punjab, India. Cotton crop of. 1889. p. 163.  Pupation, methods of, among Chalcididæ (Howard). 1891. p. 193.	A9.7:4
Purdue University, Lafayette, Ind.:	A10 0.10
Agricultural building (new) at. 1901. p. 612	A10.0:13 A10.9:29
same, comments on (Atwater and Woods). p. 23	A10.3:32
Pure-food law, working of a (Beal). 1900. p. 23	A1.9:122
Pure-food laws of European countries affecting American exports (Bigelow). 1901	
(Bigelow). 1901	A7.3:61
Flea-beetle living on (Chittenden). 1898. p. 83	A9.6:18
Value as a food (Langworthy). 1900. p. 22	A1.9:119
Purslane caterpillar, report on. 1888. p. 104	A9.7:1
Purssell, B. M. Signals, Weather Bureau. 1892. p. 47.	A29.3:7
Putullo, Andrew. Road problem. 1901. p. 84.  Pyralid, osage orange, report of (Murtfeldt). 1893. p. 155	A22.3:21 A9.7:5
Pyralidæ, descriptions of, from Death Valley (Fernald). 1894. p.	20.1.0
255	A9.7:6
Pyralidina of Death Valley expedition. 1894. p. 254	A9.7:6
Pyrenomycetes, history of development of, contributions to (Von Tavel). 1889. pp. 53, 113, 181	A28.5:5
Pyrethrum:	
Experiments with—	44 4 004 6
Kirkwood, Mo. (Murtielat). p. 85	A1.1:881-2
Kirkwood, Mo. (Murtfeldt). p. 85same, p. 85report on. 1883. p. 16	A9.1.002
Its use as an insecticide, report on. p. 76	A9.1:882
Kerosene emulsion and (Riley). 1891. p. 32	A9.7:4
Pyrheliometer, Angström's, examination of (Marvin). 1901. p. 454.	A29.6:29

	Classification no.
Quaintance, A. L., and Smith, Ralph I. Egg-laying record of plum curculio. 1902. p. 105.	A9.6:37
curculio. 1902. p. 105  Quarantine. See also Cattle quarantine — South America.  Quarantine regulations, orders, etc.	
See also Cattle orders.  Quarantine stations, imports of animals at., 1897. p. 250	A4.1:897
detecting (Allen). 1887. p. 376	A7.3:13 <sup>3</sup>
(Osgood). 1901. p. 7	
Question box at farmers' institutes (Amoss). 1902. p. 49	A10.3:110 A10.3:115
Hepatic coccidia of, Eimeria stiedæ correct name for (Stiles). p. 18. Immunity in, experiments on production of, with reference to	A4.3:35
hog cholera and swine-plague bacteria (Smith and Moore).  1894. p. 41  Rabies:	A4.3:6
Alleged, in Nebraska, investigation of (Gibbs). p. 188	A1.10:900 A4.1:900
Disease in cattle not distinguishable from (Moore). 1896. p. 10 Districts affected with, movement of animals from, order con-	A4.3:10
cerning, Dec. 11, 1899  Report of committee on public health of Medical Society of District of Columbia. 1900	A4.5:48 A4.3:25
Washington, D. C. (Moore and Fish). p. 267 same (Salmon), 1900 See also Animals.	A4.1:895-6
Rabun County, Ga., cattle in part of, releasing from quarantine, 1898. Same, Aug. 1, 1899	A4.5:21 A4.5:41
Mexico and Lower California. 1893. p. 367.  Rafinesque (C. S.) on atmospheric dust, notes on (Abbe). 1900.	A6.5:1
P. 291 Rafter, George W. Rainfall and charts of rainfall. 1902. p. 230 Ragan, W. H.:	A29.6:28 A29.6:30
Fruit growing, progress in. 1901. p. 673	A1.10:901 A1.9:156
Raiffeisen loan associations of Germany. 1891. p. 414	A27.9:29
cattle. 1890	
Chestnut oak for, circular on (Colman). 1887	A13.4:4
Consumption of, in U.S. 1890. p. 41. Impregnation of, methods as practiced for Prussian railways	A13.3;4
(Fernow). 1894. p. 286	A13.3:9
report on (Fernow). 1887. p. 108	A13.3:1
substitution for wood in (Tratman). 1890. p. 53	
use of (Tratman). 1894	A13.3:9
1889. p. 7 Structure, behavior, and causes of decay of, in roadbed (Dudley).	
1887. p. 31	A13.3:1
Treatment of, in England (Tratman). 1888. p. 49	A13.3:4 A13.3:3
Railroads: Connection of, with forest fires (Egleston). 1887. p. 128 Construction of—	A13.3:1
1889. p. 48	A27.9:28
1889. p. 48 1890. p. 37 1891. p. 27	A27.9:29
1891. p. 27 Consumption of forest supplies by, and practicable economy in	A27.9:30
their use. 1890. p. 13	A13.3:4

	Index
	Classification no.
Railroads—Continued	
Freight classification, changes in (Ward). 1900 Information furnished by, regarding roads, road materials, and	A27.4:12
freight rates in certain states west of Mississippi River. 1894.	A22.3:5
same, in certain states north of Ohio River. 1894	A22.3:6
Land-grant and bond-aided, alphabetical list of, in U.S. 1902	
Metal track on, as substitute for wooden ties (Tratman). 1889.	1110.5.1(1)
	A13.3:3
p. 7	A27.9:32
Mileage of world. 1876. p. 500.	A27.9:14
Presidents of, circular letter to, requesting cooperation with Office	
of Road Inquiry, Agriculture Department	A22.4:5
Relation of—	4.00.0.00
common roads to (Haupt). 1902. p. 61to agriculture (Richards). 1902. p. 107	A22.3:22
to forest supplies and forestry (Kern). 1887. p. 11	A10.3:120 A13.3:1
to timber resources of U. S. (Tratman). 1889. p. 68	A10.0:1 A12 2.2
Roads and, speech on (Spencer). 1902. p. 41	A 99 3.95
Sleepers on, cast-iron versus steel. p. 312	A13.3:9
Track, metal of, patents relating to (Tratman)—	1110.0.0
1889. p. 36	A13.3:3
1890. p. 326	
1894. p. 292	A 13.3:9
Track on, wooden and metal ties, expense of maintenance of	
(Post), p. 25	A 13.3:3
Transportation services, changes in rates of charge for (Newcomb).	A27.8:15
Weather signals. 1883. No. 64. p. 18.	A27.9:21
Wool transportation, charges for. 1896	A27.8:10
Railway Superintendents of Bridges and Buildings, American Inter-	
national Association of, report of committee of, on strength of	A13.3:12
bridge and trestle timbers. 1895. p. 41	A10.0:12
Artificial, notes on (Abbe). 1900. p. 22	A 29. 6:28
Fish in, note on (Abbe). 1901. p. 263.	A29.6:29
Hawaiian Islands, notes on (Abbe). 1898. p. 116	A29.6:26
Local, extent of (Abbe). 1895. p. 382	
Monsoon, forecasting (Abbe). 1895. p. 213	A29.6:23
Popular queries about, with answers (Kimball). 1901. p. 422	A29.6:29
Production of, by great fires, notes on (Abbe). 1896. p. 461	
Radio-active, note on (Abbe). 1902. p. 313	A29.6:30
Red, and dust storms, notes on (Abbe). 1901. p. 120	A29.6:29
Sand, dust, and mud, notes on (Abbe). 1899. p. 158.	
Seasonal, in Colorado, note on (Abbe). 1900. p. 155	
Sulphur, notes on (Abbe). 1898. p. 115	
pp. 152, 306 Trees as forecasters of (Abbe). 1902. p. 315	A29.6:30
Worms, and angleworms, note on (Abbe). 1899. p. 474	A29.6:27
See also Snow and rain — Sulphur rains.	
Rain and snow gage, Marvin's weighing (Carlisle). 1899. p. 131	A29.3:24
Same, instruction for using	A29.11:E
Rain gages:	A 90 G.05
For measurement of hail (Abbe). 1898. p. 210	A 20.0:20
Instructions for use of Readings, comparative, at Atlanta, Ga. (Henry). 1899. p. 543.	A 90 R 97
Records of reduction of (Lefferson) 1001 n 400	A 20 R 20
Religibility of (Abba) 1804 n 95	A 20 6.22
Records of, reduction of (Jefferson). 1901. p. 499. Reliability of (Abbe). 1894. p. 25 Remarks on (Henry). 1901. p. 500	A 29 6 29
Wind and, notes on (Abbe), 1899, p. 464	A29.6:27
Wind and, notes on (Abbe). 1899. p. 464. Rain gushes in thunderstorms (Abbe). 1897. p. 303.	A29.6:25
Saine (Abbe). 1898. p. 258.	A29.6:26

Saine (Abbe). 1898. p. 258.

Rain-producing processes, some (Garriott). 1899. p. 67.

Rain storm, great, of October, 1869. p. 378\*.

A29.6:26
A29.3:24
A27.9:7

Rainbow:

	Classification no.
Raindrops:  Large, formation of, notes on (Abbe). 1900. p. 159	   <b>A 90</b> <i>6</i> 99
Size and rate of fall, note on (Abbe). 1897. p. 445	
Studies in, notes on (Abbe). 1900. p. 158	A 20 R 29
Rainfall:	A23.0.20
Amov. China, 1897–1902 (Fesler). p. 486.	A29.6:30
Barometric pressure and (Abbe). 1895. p. 172	A29.6:23
Catch of, effect of wind on (Abbe). 1899. p. 308	A29.6:27
same (Symons). 1899. p. 454	
Causes of, with relation to surface conditions (Curtis). 1893.	
p. 187 Chagres River, upper (Abbot). 1900. p. 243	A13.3:7
Chagres River, upper (Abbot). 1900. p. 243.	A29.6:28
Climate and, relation of, to prevalence of fungus diseases	A 10 2.05
(Halsted). 1899. p. 126	A 90 R 9R
Convectional currents causing (Kimball). 1900. p. 483	A 29 R 28
Crop season (Henry). 1897. p. 607.	A1.10:897
Distribution of, over land (Herbertson). 1901. p. 67	A29.6:29
England, 1841-63. No. 1. p. 42	A27.9:2
Excessive, record of—	
1898–99. p. 300	A29.1:900
1900, p. 281	A29.1:901
1901. p. 268	A29.1:902
Experimental, report of (Abbe). 1896. p. 373	A29.6:24
Firmeza, Cuba, 1888–98. (Monroe). p. 252	A29.6:26
Forest and, report on (Hazen). 1897. p. 395.	A29.0:20 A29.3:24
Forest clearing and cultivation, effects on (Fulton). 1899. p. 89. same (Salisbury). 1899. p. 91.	A 20.3:24 -
Forests—	A20.0.27
influences upon (McMurtrie). 1874. p. 432	A27.9:12
same. 1876. p. 103	A27.9:14
relation to, in West India islands (Hubbard). 1873. p. 117	A27.9:11
Grazing and, notes on (Abbe). 1901. p. 176	A29.6:29
Great Lakes, overflow and (Abbe). 1898. pp. 164, 215	A29.6:26
Great Salt Lake level and, relation between (Mackie). 1901.	4.00 <i>0</i> .00
р. 57	A29.6:29
Heavy— area of, in southern Appalachians (Hawkins). 1897. p. 442.	A29.6:25
in local storms, notes on (Abbe). 1900. p. 207	A29.6:28
region of (Hawkins). 1895. p. 294	A29.6:23
High, Weather Bureau stations, notes on (Abbe). 1899. p. 257.	A29.6:27
Hourly results from self-registers for recording (Abbe). 1897.	
p. 252	A29.6:25
Idaho rivers and, notes on (Abbe). 1898. p. 473	A29.6:27
Jamaica, notes on—	1 00 <i>0</i> 00
May, 1870–98 (Abbe). p. 415	A29.6:26 A29.6:28
1899 (Abbe). p. 206	A29.6:29
Leeward and Windward Islands (Jefferson). 1901. p. 56	
Leeward Islands (Alexander). 1901. p. 254.	A29.6:29
Madras, India, and frequency of sun spots (Subha Rao). 1902.	
p. 438	A29.6:30
Masaya and Granada, Nicaragua (Henry). 1898. pp. 162, 305	A29.6:26
Measurements on ships, notes on (Abbe). 1898. p. 313	A29.6:26
Mountains, relation to (Alexander). 1901. p. 6	A29.6:29
New Haven, 1873–1900 (Davis). p. 261	A29.6:30
Nicaragua, record of—	A 20 R . 2R
1850-51. (Childs). p. 409 1876-93 (Henry). p. 305	A 29 8 28
1899 (Flint). p. 587	A29.6:27
Peronosporeæ and, report on (Halsted). 1889. p. 6	A28.5:5
Quantity of, corresponding to given depths (Henry). 1898. p.	
408	A29.6:26
Ratio of, to discharge of Chagres River, 1899 (Abbot). p. 541	A29.6:27
Rivas, Nicaragua, 1880-98 (Flint). p. 304	A29.6:26
Saint Kitts, W. I. (Alexander). 1900. p. 487	A29.5:28
San Juan, Porto Rico, report on (Phillips). 1899. p. 319	A 43, 1:380

	Classification no
Rainfall—Continued	
Should weekly reports of, be telegraphed from voluntary stations?	
(Marhury) 1899 n 108	A29.3:24
Snow and, of United States, to end of 1891 (Harrington)	A29.5:C
Temperature and, at Mersivan, Turkey (Abbe). 1897. p. 245	$\mathbf{A29.6.25}$
Texas 1881-93 (Hanrick) n 174	A 29 B 22
same, extraordinary (Hazen). 1899. p. 249	A29.6:27
United States, report on (Henry). 1897. p. 317	A29.1:897
same, with annual, seasonal, and other charts (Henry). 1897.	A29.5:D
See also California — Sulphur rains.	
Rainfall and charts of rainfall. 1902. p. 205.	A29.6:30
Rainfall chart, lines of equal time of water travel at Cairo, Ill. 1892.	A29.2:R13 <sup>1</sup>
Rainfall laws, deduced from twenty years' observations (Hinrichs).	
1893	A29.2:R13
Rainfall observers, special, instructions to. 1893	A29.12:R13
Same. 1902	A29.12:R52 <sup>8</sup>
Rainier, Mount, Washington. Hesperogenia, new genus of umbel-	
liferæ, from (Coulter). 1899. p. 203	A6.5:5
Raisin grape, cultivation of, by irrigation (Eisen). 1891. p. 225	A15.2:P94 <sup>1</sup>
Raisin making (Furnas). 1892. p. 117.	A1.8:20
Raisins, muscatel, production of, in Malaga (Mark). 1875. p. 319	A27.9:13
Raleigh, N. C.:	
Address at, on road improvement, Feb. 5, 1897 (Stone). p. 19	A22.4:28
Soil survey from, to Newbern, N. C. (Smith). p. 187	$A26.5:900^{1}$
State fair, cattle exhibited at, order providing for return of non-	
infected. July 18, 1899	
same. 1900	A4.5:60
Ramie, or "China grass":	
American industry in, recent facts regarding (Dodge). 1893	
Botanical considerations of, in France. 1892. p. 97	
same, 2d ed., p. 97. Cultivation of, in United States, with statements concerning prac-	A11.5:1
Cultivation of, in United States, with statements concerning prac-	
tice in loreign countries, cost of cultivation and percentages of	
yield; the machine question, and preparation of fiber for man-	
ufacture (Dodge)	A11.5:7
Culture and manufacture of jute and, in United States (Lefranc).	
1873	A1.8:8
Culture of jute and. p. 261	A1.1:873
Culture in the South (Dodge). 1893. p. 164	A10.3:16
Experiments in raising, etc. p. 220	A1.1:867
Facts regarding, recent (Dodge)—	
1891. p. 183	A27.9:29
1894. p. 443	A1.10:894
Importance of (Dodge). p. 347.	A1.1:865
Letters concerning—	4.35.0
1869. p. 137	A27.9:7
1870. p. 78	A27.9:8
Machine trials—	A 07 0.90
at New Orleans. 1892. p. 347	A27.9:30
in Paris, in 1889 (Dodge). p. 32	A27.8:1
same, 2d ed., p. 32.	A11.5:1
Manufacture of, status of. 1869. p. 369*	
Notes on. 1867. p. 149	A27.9:0
Question, report on (Dodge). 1892. p. 75.	A27.8;1
same, 2d ed., p. 75 Rand, William S. Liquid manuring, experiments in. p. 184	A11.0;1
Pandall Hanne C. Chan calactics treatment and discass of in	A1.1:867
Randall, Henry S. Sheep, selection, treatment, and diseases of, in	111.009
United States. p. 229. Randolph, Fred. J., and Francis, Fred. L. Thomas Jefferson as	A1.1:863
matagraph 1906 m 156	190 6.92
meteorologist. 1896. p. 456	A29.6:23
Randolph, L. S. Mechanical drawing, course of instruction in.	A10.3:99
1901. p. 184.	V10'9:99
Rane, F. William:	
Agricultural experiment station work, progress of variety testing in. 1901. p. 141.	A10.3:99
-	1 10.0.38
*By a misprint, this page number appears twice.	

Index	Classification no.
Rane, F. William—Continued	dissistantion so.
Horticulturists at agricultural experiment stations, some unde-	110.000
fined duties and methods of. 1896. p. 76	A10.3:30 A9.6:17
Range grass and forage plant experiments at Highmore, S. Dak.	
(Scribner), 1899	A3.4:21
Range improvement:	A3.4:33
Administration and (Forbes). 1902. p. 85 Arizona (Griffiths). 1901	A10.3:115
Arizona (Griffiths). 1901	A19.3:4
Experiments in (Smith). 1898.	A3.4:8
Forage crops, and progress of experiments in, at Abilene, Tex.	
(Bentley). 1899	A3.4;23 A4.1:885
See also Stock ranges.	
Ransom, L. A. Bermuda grass for hay. p. 87	A1.1:883
Same. No. 61. p. 27	
As a forage plant (Williams). 1899	A3.4:12
History, culture, and uses (Shaw). 1893	A1.9:11
Rapley, E. E. Louisiana, southwestern, soils and products of, in-	A1.8.70
cluding parishes of Saint Landry, Lafayette, Vermilion, Saint	A 1 0 0F
Martins, Iberia, and Saint Mary's. 1884	A1.8:35
1899. p. 73	A5.5:14
Rathvon, S. S. Entomology and its relation to vegetable productions of soil, with reference to destructive and beneficial in-	
sects. p. 372.	A1.1:862
sects. p. 372. Rathyon, S. V. Insects injurious to grape. 1868. p. 452	A27.9:6
Rats and handicoots, trypanosomiasis in. p. 155	A4.1:901
Raupenleim, report on (Smith). 1895. p. 31	A9.6:2
Ravenel, H. W. Texas, fungi of. 1869. p. 169.	A1.2:C291
Same. p. 171 Raw cotton, exports of, from United States, 1890–1895. p. 551	A1.10:895
Same, 1890–1896. p. 596	A1.10:896
Raw silk: Examination of (McMurtrie). 1883. p. 56	A9.3:3
Tenacity, elasticity, and ductility of, notes on (Walker). 1889.	
p. 309	A9.7:1
(Vasey and Rose). 1890. p. 79.	A6.5:1
Read, M. C. Forests on headwaters of streams, preservation of.	41 77
1884. p. 27	A1.7:5 A10.3:103
Reasoner, P. W. Fruits, tropical and semitropical, of Florida and	
Gulf States. p. 7	A20.3:1
Reciprocity and French tariff treaties. 1892. p. 181	A27.9:30
Reciprocity treaty, Canadian, note on. 1866. pp. 16, 144	A27.9:4
Recording instruments. See Weather recording instruments. Records and Editing Division, now Publications Division, Agricul-	
ture Department.	A21.
Records Division, Weather Bureau, tables for dividing by 672, 720,	A 90. 9. T1 1
744, 56, 60, 62  Red and black scales, Australian enemies of. 1892. p. 41  Red ants, report on (Riley) 1889, p. 104	A9.7:5
red and, report on (tiney). 1000. p. 101	A9.7:2
Red bug. See Cotton stainer. Red cedar:	
Notes on (Mohr), 1901	A13.3:31
Two diseases of, caused by Polyporus juniperinus n. sp. and Polyporus carneus nees (Schrenk). 1900	Δ 9Q Q •91
Red clover seed:	
Circular on (Pieters). 1900	A6.4:24
Information for purchasers (Fieters). 1901	M 1.9:125

	Index
Red desert of Wyoming and its forage resources (Nelson). 1898	Classification no. A3.3:13
Red kafir corn. See Kafir corn.  Red-legged flea-beetle, its injuries to orchard trees in Maryland and	
Virginia (Schwarz). 1893. p. 334 Red River Valley, soils in, temperature and moisture of, notes on,	A9.7:5
1892–98 (Abbe). p. 477	A29.6:27
Red scale: Australian enemies. 1892. p. 41	A9.7:5
hymenopterous parasites of (Howard). 1894. p. 227	A9.7:6
various methods for destroying (Coquillett). 1890. p. 9 Destruction of, use of hydrocyanic-acid gas for (Coquillett).	A9.3:22
1890. p. 202 Experiments on (Koebele). p. 558	A9.7:2 A1.1:886
Red spiders of U.S., report on (Banks). 1900. p. 65	A9.8:8
Redden, Laura C. Orange and citron, culture of. p. 147	A1.1:867
N' OF - OF	A27.9:21
Redfield and Espy period of meteorological advancement, 1830 to 1855 (Davis). 1895. p. 305.	A29.3:11 <sup>2</sup>
Reed, C. D. Forecasting for the farmer. 1900. p. 287	A29.6:28
Reed, W. M.: Irrigation in New Mexico, 1901. 1902. p. 37	A10.3:119
Pecos River and its tributaries, New Mexico, irrigation along.	A10.3:104
1902. p. 61 Pecos Valley, New Mexico, irrigation in; use of water in. 1900.	
p. 85. Reeve, James K. Truck farming. p. 663.	A10.3:86 A1.1:888
Reforestation in Leeward Islands (Alexander). 1901. p. 254	A29.6:29
Refractions, atmospheric, at surface of water (Abbe). 1896. p. 371.	A29.6:24
Refrigeration, influence of, on fruit industry (Taylor). 1900. p. 561.	A1.10:900
Reh, L. Scale insects on American fruit imported into Germany,	40.000
abstracted and translated by E. A. Schwarz. 1900. p. 79	A9.6:22 A29.6:22
Rehart, S. V. Snow and rain, seasonal, prediction of. 1894. p. 26. Reichert methods, application of, to mixed butters (Besana). 1890.	
p. 105 Reid, George. See, for reports as Superintendent, 1865, Farm, exper-	A7.3:24
imental, Agriculture Department.  Reid, James D. Pleuro-pneumonia among cattle in Great Britain,	
Scotland, and Ireland. 1891. p. 401	A4.1:889-90
Renoe, Elizabeth. Ice caves at Flagstaff, Ariz. 1901. p. 54	A29.6:29
Renoe, Milton G., short biography of. 1897. p. 484	A29.6:25
Household tests for detection of oleomargarine and (Patrick).	A 1 O.191
1901	A1.9:131 A7.3:67
Renovated butter and other dairy products, rules and regulations prescribed for inspection of, under act of May 9, 1902, and in-	
formation concerning "adulterated butter," June 21, 1902	A4.5:94
Same. Oct. 1, 1902	
Same, Nov. 1, 1902	A4.5:98
Rent unions in Bengal, India. 1875. p. 395	A27.9:13
Annotated list of, collected in Idaho by C. Hart Merriam and	AE E.E
party, 1890 (Stejneger). p. 109	A5.4:36
See also Tres Marias Islands, Mexico.	
Reptiles and batrachians:  Collected by C. Hart Merriam and Vernon Bailey in San Fran-	
cisco Mountain plateau and desert of Little Colorado, Arizona,	
annotated list of, with descriptions of new species (Stejneger).	A5.5:3
1890. p. 103 Collected by C. Hart Merriam and party in Idaho, 1890, anno-	AU.U.J
tated list of (Stejneger). 1891. p. 109  Collected by Death Valley expedition in 1891, annotated list of,	A5.5:5
with descriptions of new species and field notes by Merriam	*
(Stejneger). p. 159	A5.5:7

	Classification no.
Rescue grass: Circular on (Shear). 1900 Seeds of (Hillman). 1902	A3.4:26
Seeds of (Hillman). 1902. Reservoir system of Cache la Poudre Valley, report on (Nettleton).	A19.3 *:R31
1901 Reservoirs, some typical, in Rocky Mountain States (Mead). 1901.	A10.3:92
p. 415. Resin compounds, experiments with, on Phylloxera, in 1890 (Koe-	A1.10:901
bele). p. 37.  Resinous contents and their distribution in trees of long-leaf pine, chemical study of, before and after tapping for turpentine	A9.3:23
(Gomberg). 1893. p. 34. Respiration, organs of, noncontagious diseases of, of cattle (Lowe).	A13.3:8
p. 101  Respiration calorimeter, new, description of, and experiments on conservation of energy in human body (Atwater and Rosa).	A4.2:C29 *
Respiration calorimeter of special construction, preliminary investigations of metabolism of nitrogen and carbon in human organ-	A10.3:63
ism with (Atwater and others). 1897	A4.2:H78
See also Internal revenue.  Reynolds, A. and M. Australasia, meat trade of. p. 92  Reynolds, Joseph. See, as joint author, Brown, Simon.	
Reynolds, M. H. Veterinarian, experiment station, as member of State board of health. 1898. p. 14.	A4.3:22
Rhawn, William H. Address of, before national road conference.  July, 1894. p. 39.  Rheea fiber, information concerning (Bleclynder). 1870. p. 227.	A22.3:10
Rhine region, regimen of, high-water phenomena and their prediction (Tein). 1894. p. 117.  Rhine vintage, note on. 1888. p. 578.	A29.3:11 <sup>1</sup> A27 9:26
Rhinoceros beetle, notes on (Chittenden). 1902. p. 28	A9.6:38
Birches in, occurrence of Bucculatrix canadensisella on (Packard). 1892. p. 14  Farm resources and products of. 1868. p. 8.	A9.7:5
Road improvement, extract from governor's message (Dyer). p.9. Weather of, notes on (Abbe). 1898. p. 565.	A22.4:33
Rhubarb, forcing, results of (Smith). 1899. p. 13	A1.9:107 A9.7:5
Rice: Cultivation, production, and distribution of, in United States and	A 07 O . 0
Cultivation of (Faveau). p. 174	A27.8:6 A1.1:867
same. 1874. p. 372. Culture in United States, present status of (Knapp). 1899	A6.3:22
same (Knapp). 1900. Growers of, circular to. n. d.	A1.9:110 A5.4:5
India, crop of. 1894. p. 147.  Irrigation of—  in North Carolina South Carolina and Carolina (Karon)	A27.9:33
in North Carolina, South Carolina, and Georgia (Keeney). 1902. p. 59 in United States. 1902	A10.3:113
on uplands of Louisiana and Texas (Bond). 1902. p. 11	A10.3:113
Japan culture (Tamari). 1885. p. 187. Louisiana crop, statement on, 1860–1869. p. 430	A1.7:9 A27.9:8
Meal, feeding to pigs. 1901. p. 24  Production of, 1850–1870. p. 12  same, in United States. 1894. pp. 483, 630	A1.9:144 A27.8:10
Soils of South Carolina (Whitney). 1893. p. 77	A27.3:6
Rice Association, American, officers of. 1900. p. 643. Same. 1901. p. 637.	A1.10:900. A1.10:901.

	index
	Classification no.
Rice region, Weather Bureau Service, instructions governing (Berry).  Rice stations of Weather Bureau, instructions and code for encipher-	A29.12:C81
ing reports at	A29.12:C82
Heating value of corn, calorimetric determination of. 1898. p. 95.	A10.3:49
Manual training and apprentice system. 1894. p. 73	A10.3:20
Alcohol, withdrawal from bond for scientific purposes. 1889. p. 71.	17 2.94
Apples analyses of a 250	A1 1.000
Apples, analyses of. p. 350  Butter, American, analyses of, averages of. 1886. p. 23	A7 2.16
Phosphoric acid determination, comparison of official and nitric	A7.3.10
acid methods for 1886 n 24	A7 8·12
acid methods for. 1886. p. 24  Soil analysis, principles and methods of. 1886	A7 3·10
Richards, Ellen H. Common food materials, nutritive value of.	
1893. p. 3	
Richards, George W.:	
Clouds—	
cirrus, on northwest side of a storm. 1897. p. 212	A29.6:25
upper, and weather changes. 1898. p. 106	A29.6:26
Richards, George W. and Abbe, Cleveland. Cloud observations,	
form for record of. 1898. p. 456	A29.6:26
Richards, M. V.:	
Railroads, relation of, to agriculture. 1902. p. 107	A10.3:120
Road improvement, prospects for, in the South. 1902. p. 17	A22.3:23
Richardson, Clifford:	
Ammonium citrate solution, neutrality in, indicator for detection	A7.3:12
of. 1886. p. 21  Cereals, American, wheat, oats, barley, and rye, chemical compo-	A7.5:12
sition and physical properties of, 3d report, 1886	A7.3:9
Grasses, American, chemical composition of, from investigations	A1.0.0
in laboratory of Department of Agriculture, 1878–1882. p. 117.	A1.8:32
Milk of Washington not normal. 1888. p. 24	A7.3:19
Plants, certain, of economic value as food for man and stock, in	22110120
Texas and New Mexico. p. 282	A1.1:887
Sorghum and sugar production, character and composition of	
soils best adapted to. 1886. p. 60	A7.3:10
Spices and condiments adulteration of—	
1886. p. 291	A1.1:886
1887. p. 129	
Wheat, what science can teach about. 1883. p. 67	A1.7:2
Wheat and corn, American, investigation of composition of—	A = 0.1
1883	
same, errata. 1884. p. 98	A7.3:4 A7.3:4
1884. 2d report	A1.5.T
Agricultural, Association of.	
See also, for report as assistant chemist, Chemistry Bureau, Agri-	
culture Department. 1883	A7.1
Richardson, H. W.:	
Acetylene gas, substitution of, for oil in storm-warning lanterns.	
1902. p. 154	A29.3:31
Temperatures at Duluth, Minn. p. 463	A29.6:27
Richardson, R. W. Good roads movement, character of. 1902.	A 00 0 00
p. 27. Richman, Irving B. St. Gall, Switzerland, cost of hauling farm	A22.3:23
nichman, Irving b. St. Gall, Switzerland, cost of nauling larm	A22.4:27
products over wagon roads at. p. 11	ALL. 7.21
Milk fat in estimation of 1890 p. 162	A7.3:24
Milk, fat in, estimation of. 1890. p. 162  Specific gravity, determination of rise in, on allowing milk to	
stand after milking. 1894. p. 191	A7.3:43
Richmond, —. See Van Slyke, Lucius Lincoln.	
Richmond, Va., brass river gage at, description of, and its method	
of support (Leisenring). 1899. p. 456	A29.6:27
See also Virginia good roads convention.	
Richmond Canal. See Logan and Richmond Canal, Utah.	A A 1 -004
Richmond County, N. Y. lung plague in, history of (Rose). p. 468	A1.1.001

	Classification no.
Riley, Charles Valentine:  Address of, as president of Association of Economic Entomologists, at 2d annual meeting. 1891	ı
Address of, as president of Association of Economic Entomolo-	AQ 7.2
gists, at 2d annual meeting. 1891	A 0. ()
1892. p. 127	A9.7:5
1892. p. 127 Bees, report on. 1894. p. 350	A9.7:6
Cotton worm—	
address on, before cotton convention at Atlanta. 1881. p. 153.	A1.1:881-2
same, p. 153	A9.1:882
same, p. 153 final report on, and chapter on boll worm. 1885	A8.1:4
Dendrotettix genus, report of. 1893. p. 204	A9.73
Digger-wash larger report on 1892 n 248	A9.7.4 AQ 7.4
Digger-wasp, larger, report on. 1892. p. 248. English sparrow, insectivorous habits of. 1889. p. 111	A5.3:1
Entomology, applied—	
general truths in. p. 323. outlook for, address on. 1891. p. 181.	A1.1:884
outlook for, address on. 1891. p. 181.	A9.7:3
some recent matters of international concern. 1888. p. 126.	
Fluted scale, Australian hymenopterous parasite of. 1890. p. 248.	A9.7:2 A1 1:884
Grape phylloxera, notes on. p. 405  Herbarium pest, new, report on. 1891. p. 108	AQ 7.1
same, further notes on. 1892. p. 40.	A9.7:5
Hessian fly, remarks on. 1888. p. 107	A9.7:1
Hop plant-louse, notes on. 1888. p. 70	A9.7:1
Icerya; its probable origin the islands of Bourbon and Mauritius.	
1887. p. 27 Insect collection of large museum, suggestions for. 1890. p. 342.	A9.3:15
Insect collection of large museum, suggestions for. 1890. p. 342.	A9.7:2
hedbuog and red anta 1889 n 104	A 9 7·2
bedbugs and red ants. 1889. p. 104. carpet beetle or so-called Buffalo moth. 1889. p. 127.	A9.7:2
cockroaches. 1890. p. 266	A9.7:2
true clothes-moths. 1890. p. 211	A9.7:2
Insecticide appliances, report on. 1889. pp. 243, 263	A9.7:1
Insects—	10 7.5
new injurious, of year. 1892. p. 16. occurring in foreign exhibits of World's Columbian Exposi-	A8.7:0
tion. 1894. p. 213.	A9.7:6
senses of, report of. 1894. p. 33	A9.7:7
small collection of, made during Death Valley expedition.	
1893. p. 235 International forestry exhibition, Edinburgh, Scotland, report	A5.5:7
International forestry exhibition, Edinburgh, Scotland, report	A 1 1.004
of. 1884. p. 167. Ixodes bovis, remarks on. 1869. p. 168	A1.1:304 A1.2:C201
Kerosene emulsion and pyrethrum. 1891. p. 32.	A9.7:4
Lady-bird parasite, report on. 1888. p. 101	A9.7:1
Locusts, destructive; a popular consideration of a few of more	
injurious locusts (or "grasshoppers") of U.S., with best	1000
means of destroying them. 1891	A9.3:25
Megilla parasite, additional note on. 1889. p. 338	
Morelos orange fruit-worm, report on. 1888. p. 45.	A9.7:1
Mulberry silkworm	
Ox bot in United States. 1892. p. 302	A9.7:4
	A9.7:4
Parasitic and predaceous insects in applied entomology. 1893.	A O. 27.0
p. 130 Parsnip web-worm, report on. 1888. p. 94	A9.7:6
Periodical cicada, or seventeen-year locust—	A5.7.1
circular relative to	A9.2:P41
circular relative toreport on. 1885	A9.3:8
Plants and insects, some interrelations of. 1892. p. 358	A9.7:4
Platypsyllus—	40.70
egg and ultimate larva. 1890. p. 244. systematic relations of, as determined by the larva. 1888.	A9.7:Z
n. 300	A9 7·1
p. 300 Pronuba and yucca pollination, notes on. 1889. p. 367	A9.7:1
Rose chafer report on 1890 n 295	AQ 7.9

	Classification no.
Riley, Charles Valentine—Continued	
Rose saw-flies in United States. 1892. p. 6	A9.7:5
Scale insects of orange in California, particularly the icerya or	
fluted scale, alias white scale, alias cottony cushion-scale, etc., address on. 1887. p. 9	A9.3:15
Silkworm, being brief manual of instructions for production of	
silk 5 editions	A1 8·11
Thalessa and tremex, habits of. 1888. p. 168.	A9.7:1
Viviparous cockroach. 1891. p. 443	A9.7:3
Viviparous cockroach. 1891. p. 443. Willow-shoot saw-fly. 1888. p. 8. Yucca insects and yucca pollination, further notes on. 1893.	A8.7:1
000	A9.7:5
See also, as collector, Howard, Leland Ossian; as joint editor, In-	
sect life	A9.7:
See also, for reports as Entomologist, Agriculture Department, 1879, 1882-93	A9.1:
1879, 1882-93	A8.1:
Riley, Charles Valentine, and Howard, Leland Ossian. Plum cur-	
Riley, Charles Valentine, and Howard, Leland Ossian. Plum curculio, report on. p. 57	A1.1:888
Same, p. 57.	A9.1:888
Riley, Charles Valentine, and Marlatt, Charles Lester: Clover mite, report on. 1890. p. 45.	10.7.2
Wheat and grass saw-flies, notes on. 1891. p. 168	A9.7:4
Riley, Charles Valentine, entomological writings of, bibliography of	1101111
more important (Henshaw). 1889. p. 99	A9.2:B471
Rinderpest. See Cattle plague.	
Ringwalt, Samuel. Horse, report on, from practical experience in Army. p. 321	A 1 1.988
Ringworm. See Cattle.	A1.1.600
Rio de Janeiro, exhibit at. note on. 1866. p. 235	A27.9:4
Rio de Janeiro, exhibit at, note on. 1866. p. 235	
p. 61	A29.6:29
Rio Grande, N. J.: Sorghum sugar experiments at—	
1887 (Hughes). p. 246	A1.1:887
1887 (Hughes). p. 246	A7.3:17
1887 (Edson). p. 250	A1.1:887
same, p. 71 1888 (Edson). p. 29	A7.3:17
1888 (Edson). p. 29 1888 (Hughes). p. 268	A7.3:18 A1 1:888
same, with additional matter. p. 29	
1888 (Edson). p. 20	A7.3:18
1888 (Wiley). p. 7	A7.3:20
1889 (Horton). p. 58	
1889 (Wiley). p. 14. Sorghum-sugar factory at, methods employed by (Hughes).	A7.3:20
1884. p. 54	A7.3:3
Rio Grande region, Texas, from Brazos Santiago to El Paso County,	
collection of plants made by G. C. Nealley in region of	4051
(Coulter). 1890. p. 29. Rio Grande, valley of, agriculture in. 1870. p. 479	A6.5:1
Ripe rot of grapes and apples (Southworth). 1891. p. 164.	A28.5:6
Ripley, Chauncey B. Address of, before convention of National	
Ripley, Chauncey B. Address of, before convention of National League for Good Roads, Washington. 1893. p. 70	A10.3:14
Rising, W. B. See, as collaborator, Wiley, Harvey Washington.	
Ritz, Philip. Agricultural resources of eastern Oregon and Washington Territory. 1869. p. 384*	A27.9:7
Rivas, Nicaragua:	2127.0.1
Meteorological observations at, monthly notes on 1898 (Abbe).	
pp. 61, 162, 210, 307, 408, 459, 541	A29.6:26
same, 1899 (Flint). pp. 11, 97, 153, 193, 249, 299, 360, 462,	A 00 0-07
509, 546 Rainfall at, 1880-98 (Flint). p. 304	A29.6:27 A29.6:26
Kiver and flood service:	
Bulletins of Chart of. 1897	A29.14:
Chart of. 1897	A29.2:R52

Index	Classification re.
River and flood service—Continued  Monthly notes on—	CALLED INCOME NO.
Nov., 1896-May, 1898 (Morrill)	A29.6:24
June-July, 1898 (Kriechelt)	A29.6:26
Aug., 1898 (Garriot)	A29.6:26
Sept., 1898-May, 1899 (Frankenfield)	A29.6:26-27
June-July, 1899 (Kriechelt)	
Aug., 1899-May, 1902 (Frankenfield)	A29.6:27-30
June, 1902 (Hunt) July-Oct., 1902 (Frankenfield)	A29.6:30
July-Oct., 1902 (Frankenfield)	A29.6:30
Note on (Hyatt). 1899. p. 50.	A29.3:24
same (Pindell). 1899. p. 51	A29.3:24
River and flood service charts, showing area covered by water of	Acc o Dros
Mississippi River in April, 1897	A29.2:R52 <sup>2</sup>
River and rainfall observers, special, of Weather Bureau, instructions to. 1902	A29.12:R523
See also Rainfall observers.	A 29.12:R02
River and rainfall stations, special, daily precipitation at, 1893–95.	
1900	A29.2:P91
River floods:	1120.2.101
Note on (Abbe). 1897. p. 209.	A29.6:25
Rate of advance of (Abbe). 1895. p. 341	A29.6:23
River forecast stations, establishment and inspection of (Marbury).	
1899. p. 150	A29.3:24
River gages:	
Automatically recording, introduction of (Fulton). 1902. p. 220.	<b>A29.3:31</b> .
Brass, description of, at Richmond, Va., and its method of sup-	
port (Leisenring). 1899. p. 456. Mississippi Valley, upper (Carlisle). 1902. p. 222.	A29.6:27
Mississippi Valley, upper (Carlisle). 1902. p. 222	A29.3:31
River observers, special, instructions for (Russell). 1892	A29.12:R52
River Plata countries, manufacture and exportation of tasajo or	A 4 1.000
jerked beef by. p. 399	A4.1:899
Daily	A29.10:
Daily, charts showing, in feet. 1892	A29.2:C38
Forecasts of Mississippi and Ohio rivers and tributaries in periods	
of low water, importance of (Smyth). 1902. p. 146	A29.3:31
Predictions in United States (Russell). 1894. p. 89	A29.3:11 <sup>1</sup>
Report of (Russell). p. 483	A29.1:891 <sup>3</sup>
Rivers:	
Four great, of Siberia (Sperk). 1894. p. 101	$A29.3:11^{1}$
Freezing and opening of, dates of. 1864. No. 2. p. 64; No. 3.	10700
p. 25	A27.9:2
Of small drainage area, forecasting for, especially those of North	A 00, 0.01
Carolina (Herrmann). 1902. p. 158	A29.3:31 A29.10:
Principal, of United States, daily stages of, 1890-99	A29.3:17
Riverside, California, insect control in (Havens). 1900. p. 83	A9.6:22
See also Gage canal.	110.0.22
Rives, Wright. Cabbage worms, remedies for. p. 134	A1.1:883
Same, p. 134	A9.1:883
Roaches, injury to files in Treasury Department by. 1888. p. 67	A9.7:1
Road associations, national, State, and local, and kindred organiza-	
tions in United States, list of	A22.4:36
Road building:	
Convict labor in. See Convict labor.	11 10 005
Cooperative (Stone). 1895. p. 487	A1.10:895
Cooperative (Stone). 1895. p. 487.  Facts and suggestions (Earle). 1901. p. 87.  Few practical suggestions on (Ross). 1902. p. 18.	AZZ.5:Z1 A99-2.99
From engineer's standpoint (Campbell). 1901. p. 45	A 99 2.91
Massachusetts road laws and (Ross). 1901. p. 34	A 22.3.21
Minnesota State aid to (Choate). 1898.	A22.4:32
Mountainous country (Kelsey). 1902. p. 63.	A22.3:23
New Jersey State aid to (Burrough). 1894.	A22.3:9
Note on (Branch). 1902. p. 44	A22.3:23
Note on (Branch). 1902. p. 44. Ohio (Dodge). 1895. p. 16. Pioneer, historical paper on (Hermann). 1902. p. 48.	A22.3:17
Pioneer, historical paper on (Hermann). 1902. p. 48	A22.3:25

	Index Classification no.
Road building—Continued	
Practical problems in (Twiggs). 1902. p. 53	A22.3:23 A1.10:899
Recent progress in. 1899. p. 749.	A1.10:899
Southern States, some essentials in modern systems of (Holmes).  1902. p. 82  United States—	A22.3:23
historical and technical papers on (Stone). 1895	A22.3:17
Atlanta, Ga., Oct. 17–19, 1895	A22.3:19
Road business a question of education (Daniels). 1901. p. 66	
gress.	
Road conventions in Southern States and object-lesson roads constructed under supervision of Office of Public Road Inquiries with cooperation of Southern Railway, 1902	A22.3:23
Minnesota good roads convention—New York State, boards of supervisors of—Texas good roads convention—Virginia good roads convention.	
Road Inquiries Office, Public, Agriculture Department [formerly Office of Road Inquiry]:	A22
Circular letters relative to cooperation in work of	
Work of, for farmer (Stone). 1897. p. 175	A1.10:897
Road materials: Arkansas (Branner). 1894	A22.3:4
tion regarding. 1894 same, in Eastern and Southern States. 1894	A22.3:6
same, in Eastern and Southern States. 1894	A22.3:7
Laboratory for physical and chemical examination of	
west of Mississippi River. 1894	A22.3:5
Central committee of. 1899. p. 701	A1.10:899
See also Atlanta, Ga., national road parliament.	•
Road problem (Patullo). 1901. p. 84	A22.3;21
Farmer's views on (Bean). 1901. p. 67	A22.3:21
Importance of (Longino). p. 18. Social, commercial, and economic phases of (Moore). 1900	A22.3:21 A99.4:34
Road situation in Iowa (Heaps). 1901. p. 64	A22.3:21
Road stones and problems therewith connected (Whittle). 1897	A22.4:29
Road system:  Better, simple plan for (Polsley). 1901. p. 98	A22.3:21
Better, simple plan for (Polsley). 1901. p. 98	A22.3:3
Government, of Yellowstone National Park (Chittenden). 1901. p. 72	A22.3:21
Pennsylvania's (Hamilton). 1901. p. 25	A22.3:21
Act to provide for construction of, by local assessment, county,	
and State aid passed by New York assembly, Oct. 13, 1894	
Address on (Greene). 1895. p. 34	A22.3:17 A99 9.91
Rest for forms and forming districts 1894 n. 501	A1.10:894
Belgium (Valliant). 1901. p. 87  Best, for farms and farming districts. 1894. p. 501  Brick wheel-track (Long). 1901. p. 68  Building. See Road building.	A22.3:21
Common, and railroads, relation of (Haupt). 1902. p. 61	A22.3:22 A22.3:23
Country-	
brick paving for. 1896	A22.4:25
ongtruction of good (Fldridge) 1808 p. 217	AZZ.5:11 A1 10:898
brick paving for. 1896	A1.1:866

	Classification
Roads—Continued	I
Country—Continued	
maintaining, comments on systems of. 1896	
same, rev. ed	A22.4:24
repairs of (Hewitt). 1894. p. 17	A22.3:8
road laws and. p. 348traffic of. 1896	
Earth—	A22.3.10
hints on their construction and repair (Stone). 1894	A22.3:8
report on (Eldridge). 1902	A1.9:136
Forces which operate to destroy (Whittle). 1897	A22.4:29
Good—	•
duty of General Government toward (Falkner). 1902. p. 31.	A22.3:23
extracts from messages of governors (Stone). 1895	
for farmers (Eldridge)	A1 Q-Q5
for farmers (Eldridge) going in debt for (Thayer). 1897.	A22.4:26
hearings on, before Agriculture Committee, House of Repre-	
sentatives. 1893. p. 85	A10.3:14
how to procure means to build (Jackson). 1895. p. 29	A22.3:11
how to secure (Montague). 1902. p. 36	A22.3:25
importance of, in war and peace (Miles). 1902. p. 39	A22.3:25
Kentucky organizations for (Van Pelt). 1901. p. 81	A22.3:21 A99 2.92
money value of, to farmers (Latta). 1896.	
movement, character of (Richardson). 1902. p. 27	
must farmer pay for? (Dorner). 1898	A22.4:31
press and (Battey). 1902. p. 55	A22.3:22
press work for (Battey). 1901. p. 89.	A22.3:21
question of the hour (Daniel). 1902. p. 68	A22.3:23
relation of, to industrial development (Hays). 1902. p. 78 stereopticon views of. 1901. p. 71	A2Z.3:23   A99-9.91
suggestions to friends of (Heyward). 1902. p. 47.	A22.3.21 A22.3.23
work for new century (Stone). 1901. p. 52	A22.3:21
work of Federal Government for (Dodge). 1902. p. 43	A22.3:23
See also Asbury Park, N. J., national conference, 1894 — New	
Jersey — New York. Gravel, in Hennepin County, Minn., method of construction and	
cost of (Cooley). 1901. p. 96	A 22.3.21
Improvement of—	1122.0.21
address at Raleigh, N. C., on, February 5, 1897 (Stone). p. 19.	A22.4:28
addresses on (Stone). 1894.	A22.4:14
Congressional action in, necessity of (Stone). 1902. p. 23	A22.3:25
convict labor in, plan for use of (Brewster). 1895. p. 7	A22.3:16 A99-2.91
Florida, progress of (Jennings). 1901. p. 60	
Highie-Armstrong act	
Jefferson County, Ala. (Jackson). 1902. p. 31	A22.3:23
legislation for (Eldridge). 1901. p. 679	A1.10:901
letter to Illinois Farmers' Institute on (Stone). 1897. p. 23.	
North Carolina, use of convicts in (Holmes). 1895	A22.3:16
prospects for, in the South (Richards). 1902. p. 17remarks on (Fonde). 1902. p. 41	A 22.3.23
requisites to (Clift). 1902. p. 26	
rural free mail delivery in relation to (Machen). 1901. p. 92.	A22.3:21
societies for, State and local, appeal for organization of. 1896.	AZZ.4:ZZ
Location and construction of (Patton). 1902. p. 30	A22.3:25
Macadamized—	
electric street railways and, relation between (North). 1902.	A22.3:22
p. 59 methods of construction of. 1896	A22.3:22 A22.4:21
repairs of (Harrison). 1898.	A22.4:30
repairs of (Harrison). 1898report on (Ashburner). 1895. p. 31	A22.3:17
selection of materials for (Page). 1900. p. 349	A1.10:900
Management of—	
State laws relating to, 1888-93 (Stone) State laws relating to, enacted 1894-95	A22.5:1 A22 2:12
NAME TO A PERSONAL POPE DO	<i>0.66</i> , 0.10

Class	160041	<b>^</b>	
		on	

Roads—Continued	
Materials for. See Road materials.	
Mountain—	4
as a source of revenue (Abbott). 1901. p. 527	A1.10:901 A1.10:000
Object lesson—	A1.10.000
Government cooperation in work (Dodge). 1901. p. 409 report on (Stone). 1897. p. 373	A1.10:901
report on (Stone). 1897. p. 373	A1.10:897
Public—	A 00 0.11
convict labor on, use of (Graham). 1895. p. 34. improvement of, in North Carolina (Holmes). 1894. p. 513.	A22.3:11 A1 10.904
traction tests on (Neely). 1896	A22.3:20
Railroads and (Spencer). 1902. p. 41	A22.3:25
Relation of, to rural population (Dodge). 1902. p. 34	A22.3:23
Road-building materials and, of Georgia (McCallie). 1902. p.	A 00 0.00
Road materials and freight rates in certain States north of Ohio	A22.3:23
River, information regarding. 1894.	A22.3:6
River, information regarding. 1894. same, in Eastern and Southern States. 1894.	A22.3:7
Steel-track (Dickinson). 1901. p. 68	A22.3:21
Steel-track wagon (Dodge). 1898. p. 291	A1.10:898
Stone and shell (Humphreys). 1894. p. 52 Stone, in New Jersey (Harrison). 1895. p. 23	A22.3:11 A99 2:17
What our bad roads cost us (Coleman). 1895. p. 17	A22.3:11
See also Convict labor — Highways.	
Roads, Good, National Association of, officers of:	
1900. p. 664	
1901. p. 633 Roads, Good, National League for:	A1.10:901
Officers of. 1898. p. 620	A1.10:898
Proceedings of convention of. 1893. p. 11	A10.3:14
Roadsters and trotters, breeding of (Lang). p. 157	A1.1:864
Robert, J. C. Blood serum, experiments with, as a preventive and	4.4.1.000
cure for Texas fever. p. 482  Roberts, Frank W. Sheep and wool in Cape Colony. p. 522	A4.1:898 A4.1:898
Roberts, Isaac Phillips:	A4.1.000
Agricultural courses in the East, principles underlying formation	•
of. 1900. p. 65	A10.3:76
Agricultural experiment stations, how can they reach and in-	A 10 E .1
terest the farmers? 1889. p. 30. Agricultural industry, our new. 1901. p. 124.	A10.5:1 A10.3:99
Farm, exodus from the, what are causes of? 1896. p. 80	A10.3:41
Science versus art. 1898. p. 69	A10.3:49
University extension work, how may it be best conducted by	
colleges of agriculture? 1898. p. 55	A10.3:49
Roberts, J. P. Milk qualities, science of developing and perpetuating. 1882. p. 86.	A1.8:22
Roberts, John. Animals and animal products, imports and ex-	
ports of. p. 611	A4.1:901
Robertson, W. Henry. Hamburg, dried apples in. 1894. p. 12	A7.3:48
Robertson silage mixture. 1897. p. 7 Robins, C. E. Florida, south, resources and productions of. 1889.	A1.9:56
p. 514	A27.9:27
Robinson, Henry A:	
Crop correspondents, manual of instructions to	A27.2:C88
Publications of Statistics Division, letter relating to. 1895	A27.2:P96
See also, for reports as Statistician, Agriculture Department, 1893–1896	<b>A27.1</b> :
Robinson, Jesse H:	122111
Seacoast telegraph lines, instructions to operators on. 1897	
Telegraph and weather service. 1902. p. 145	A29.3:31
Telegraph service with West Indies. 1898. p. 410	A29.6:26
Robson, W. S., address of, before good roads convention of Texas, Feb., 1895. p. 11	A22.3:15
Rockall Island as meteorological station (Abbe). 1898. p. 311	
Rocket signals. See also Kerkam's kites with rocket signals.	

Index	Classification no.
Rocks, imbibition of (Hill). 1891. p. 213	
Rocky Mountain areas, agricultural notes on. 1866. p. 379	A27.9:4
p. 125	•
Note on. 1869. p. 56	A27.9:7
Report on. p. 218	A1.1:867
Rocky Mountain grasses (Vasey). 1874. p. 154	A27.9:12
Abundance of, in 1885 (Bruner). p. 303 Entomological Commission reports on	
Habits, natural history, and means of counteracting injuries of (chaps. 8 and 13 of 1st Report of U.S. Entomological Com-	
mission. See A10.1:877). p. 264	A1.1:877
Kansas and Colorado, in 1880 (Chipman). 1883. App. p. 55	A8.1:3
Notes on (Bruner). 1888. p. 65	A9.7:1
Observations on—	
during summer of 1883 (Bruner). 1884. p. 51	A9.3:4
in Northwest in 1882 (Bruner). 1883. p. 7	
Reports and observations on. 1883	A9.3:2
Report on, in 1880 (Marten). 1883. App., p. 50	A8.1:3
See also Locust — Melanoplus spretus.  Rocky Mountain region:	
Eastern, grasses and forage plants and forage conditions of	
(Williams). 1898	A3.3:12
(Williams). 1898 Forest flora of (Sudworth). 1888. p. 153	A 13.3:2
Grasses and forage plants of (Rydberg and Shear). 1897	A3.3:5
Rocky Mountain States:	A 1 0 9.79
Irrigation in (Ulrich). 1899.	A10.3:73
Reservoirs in, some typical (Mead). 1901. p. 415	
Eastern slope of, grasses of Plains and, catalogue of. p. 217	A1.1:870
Forest conditions of, especially in Colorado, Idaho, Montana,	
Wyoming, and New Mexico (Ensign). p. 41	A13.3:2
same, introduction to report. 1888. p. 7	A13.3:2
Snowfall in, notes on (Abbe). 1900. p. 18	A29.6:28
Rod, divining, use of, in search for water, note on (Abbe). 1900.	A29.6:28
Rodents. See Arvicolinæ — Bandicoots — Bats — Blarina — Evo-	
tomys — Gophers — Grasshopper mouse — Ground squirrels —	
Guinea pigs — Hesperomys — Jack rabbits — Jumping mice —	
Kangaroo rats—Lemmings—Pika—Pocket gophers—Pocket	
mice — Rabbits — Rats — Voles.	
Roentgen rays, report on (Trowbridge). 1897. p. 348	A29.6:25
Roesler, F. E. Artesian well investigation, field work in Texas.	A15.2:Ar7
1890. p. 243	
Rogers, George. Cattle show of Smithfield Club, notes on. p. 326.	
Roland, H. Whitfield. See, as joint author, McLean, L.	A 1 O 140
Rolfs, Peter H. Pineapple growing. 1901	
from governor's message. p. 5	A22.4:33
Rollins, John F. Florida as home for emigrants. 1872. p. 495	A27.9:10
Romaine, Helmas:	
Horse breeding in New Jersey. p. 385	A4.1:889-90
Vermont Association of Road and Trotting Horse Breeders, exhi-	
bition of. p. 441	A4.1:889-90
Beef cattle, American breeds of, with remarks on pedigrees. 1902.	A4 9.94
Horses, market classes of. p. 433	
same. 1902	A4.3:37
Röntgen rays and cloudy condensation (Abbe). 1896. p. 167	A29.6:24
Roofs, tin, as lightning conductors, notes on (Abbe). 1898. pp. 166,	A 90. 4.04
258	A29.6:26
Roos, Van Hamel. Poisoning by preserving in tin cans. 1892. p.	A7 9-197
930	A7.3:13 <sup>7</sup>

•	Classification no.
Roosevelt, George W.:  Animals, dead, disposition in Belgium, especially Brussels. p. 354.  Belgium, cost of hauling farm products over wagon roads in. p. 1  Roosevelt, Robert B. Fish culture, report on. 1873. p. 183  Roosevelt, Theodore:	A22.4:27
Message, transmitting report of Secretary of Agriculture on forests, rivers, and mountains of southern Appalachian region. p. 3	A1.2:Ap4 <sup>2</sup> A22.4:33
Root crops, cultivation of, in United States (Leverett). p. 95 Root fungus of New Zealand (Wight). 1889. p. 199 Root knot, cowpea resistant to (Webber and Orton). 1902. p. 22 Root-knot disease of peach, orange, and other plants in Florida, due to work of Anguillula (Neal). 1889	A1.1:863 A28.5:5 A19.3:17
Root-rot disease, new, of cotton: Circular of inquiry on (Rusk) Report on (Atkinson). 1890. p. 262. Root rot of taro (Sedgwick). 1902. Ropes, strength of. 1898. p. 677. Roquefort cheese, manufacture of. 1868. p. 40. Rosa, Edward Bennett. See, as joint author, Atwater, Wilbur Olin.	A28.4:9 A9.7:3 A12.9:2 A1.10:898 A27.9:6
Rose, Joseph Nelson: Big Horn Mountains of Wyoming, plants from. 1896. p. 567 Carmen Island, plants collected by Edward Palmer in 1890, on,	A6.5:3
list of. 1892. p. 129.  Cocos Island, plants from, collected by U. S. S. "Albatross" in 1887-91, list of. 1892. p. 135.  Galapagos Islands, plants from, collected by U. S. S. "Albatross" in 1887-91, list of. 1892. p. 136.	A6.5:1 A6.5:1
Mexico— useful plants of, notes on. 1899. p. 209 western, and Arizona, list of plants collected by Edward	A6.5:5
Palmer in 1890, in. 1891. p. 91  Mexico and Central America, plants of, studies of. 1897. p. 103.  Mexico and United States, plants, mostly new, from, description	A6.5:1 A6.5:5
of. 1895. p. 311.  Plants, three new, descriptions of. 1893. p. 289  Sonora and Colima, States of, Mexico, collection of plants made in, by Edward Palmer in years 1890 and 1891, report on.	A6.5:3 A6.5:1
1895. p. 293 Tradescantia, three new species of, from U. S. 1899. p. 204 Treleasea, a new genus of Commelinaceæ. 1899. p. 207 Tres Marias Islands, plants of. 1899. p. 77 Weeds, two, new to United States. p. 355 same. p. 355	A6.5:5 A5.5:14
See also, as joint author, Coulter, John M.—Vasey, George; as collector, Davenport, George E.  Rose, W. H.: Pleuro-pneumonia among cattle in Maryland, District of Colum-	•
bia, and Virginia. p. 51.  Swine plague, outbreak of, in Maryland and Virginia. p. 446  Virginia, southern, cattle fever in. p. 461  Rose, William. Lung plague, history of, in Richmond County, New	A4.1:884
York. p. 468  Rose, insects injurious to, some (Chittenden). 1901  Rose bug:  Experience with (Smith). 1890. p. 113	
Experience with (Smith). 1890. p. 113	
Circular relative to (Chittenden). 1895	A9.7:2 A9.6:7
Rose saw-flies in United States (Riley). 1892. p. 6	A9.7:5

## index

	Classification B
Roseanthus, a new genus of Cucurbitacese, from Acapulco, Mexico	
(Cogniaux). 1896. p. 577	A6.5:3
Rose's method of estimating fat in milk, 1888–1889. 1890. p. 160	A7.3:24
Blight or mildew of, sulphur for. 1867. p. 60	A27.9:5
p. 44	A9.6:22
Rosette. See Peach rosette.	
Ross, B. B.:	
Address of, as president of Association of Official Agricultural Chemists, at thirteenth annual convention. 1896. p. 6	A7.3:49
Ammonium phosphomolybdate, new reaction with. 1894. p. 97.	
Citrate-soluble phosphoric acid, determination of. 1893. p. 16	A7.3:38
Ross, Charles W.:	4 00 0 00
Road building, few practical suggestions on. 1902. p. 18	A22.3:22
Ross, D. B. Sugar analysis, notes on. 1889. p. 179	A7.3:24
Ross, D. W.:	
Boise Valley, Idaho, duty of water as related to irrigation prob-	
lems of. 1900. p. 219.	A10.3:86
Canals in Idaho, distribution of water from. 1902. p. 199	A10.3:119 A10.3:104
Rotation, direction of, notes on (Abbe). 1899. p. 361.	A29.6:27
Rotch, Abbott Lawrence:	
Aerial voyages by balloons and kites. 1900. p. 553	A29.6:28
Aeronautical conference, international, Strassburg, Germany, re-	A29.6:26
port on. 1898. p. 158	A28.0:20
p. 356.	A29.6:30
Air, exploration of, progress in, with kites at Blue Hill Observa-	• • • •
tory, Mass. 1898. p. 355	A29.6:26
Atmosphere— circulation of, in tropical and equatorial regions. 1902. p. 181.	A29.6:30
systematic exploration of, by means of kites, method for.	1110.0.00
1902. p. 66	A29.3:31
Clermont-Ferrand, France, international hydrological, climato-	
logical, and geological congress, Sept. 28 to Oct. 2, 1896. p. 367	A29.6:24
Cloud observations at Blue Hill Meteorological Observatory,	
Milton, Mass. 1897. p. 12	A29.6:25
German Meteorological Society, eighth general meeting of. 1898. p. 160.	A29.6:26
Meteorological balloon ascension at Strassburg, Germany. 1901.	A29.0.20
p. 298.	A29.6:29
Paris, international meteorological conference at, Sept. 1896, re-	100.0.04
port on. p. 365	A29.6:24
Cuban pine, additional notes on. 1897. p. 89	A13.3:13*
Forestry conditions and interests of Wisconsin. 1898	A13.3:16
Grazing in forest reserves. 1901. p. 333	
Loblolly pine, additional notes on. 1897. p. 133	
Longleaf pine, additional notes on. 1897. p. 74	
Shortleaf pine, additional notes on. 1897. p. 111.	A13.3:13 <sup>2</sup>
Timber, an elementary discussion of characteristics and proper-	111010110
Timber, an elementary discussion of characteristics and properties of wood. 1895  Timber physics, progress in. 1898	A13.3:10
Timber physics, progress in. 1898	A13.4:19
Turpentine timber, field report on. 1893. p. 32 White pine, wood of. 1899. p. 73 Wood of five Southern pines, structure of. p. 133	A13.3:8
Wood of five Southern nines structure of n 199	A13.3:22 A13.9:13.1
same, rev. ed. 1897. n. 143.	A13.3:13 2
same, rev. ed. 1897. p. 143	A1.10:896
See also, as collaborator and as joint author, Fernow, Bernard	
Eduard.	

	Classification r
Rothamsted Experimental Station, England:	
Agricultural investigations at, six lectures on, under provisions of Lawes Agricultural Trust—	
of Lawes Agricultural Trust—	
1892. (Warington)	A10.3:8
1893. (Gilbert)	A10.3:22
1893. (Gilbert) same, introduction (Gilbert). p. 46 same, p. 9	A10.3:20
History and work of, lecture on (Warington). 1892. p. 7	A10.3:22
Laboratory of, determination of nitric acid in soils by Schloesing's	A10.5:8
method at (Warington). 1886. p. 47	A7.3:11
Nitrogen determination in soils of experimental fields at, and	A.7.Q.11
bearing on question of source of nitrogen of our crops (Lawes	
and Gilbert). 1882. p. 142	A1.8:31
Soils at, results of investigations on, being lectures delivered	•
under provisions of Lawes Agricultural Trust (Dyer). 1902	<b>▲10.3:106</b>
Wheat grain and wheat straw grown at, in different seasons	
and by different manures, composition of ash of (Lawes and	
Gilbert). p. 85 Rothrock, J. T. Trees, planting, a patriotic duty. 1895. p. 32	A7.3:4
Rothrock, J. T. Trees, planting, a patriotic duty. 1895. p. 32	A1.8:56
Roubaix, France, cost of hauling farm products over wagon roads	A 00 4.07
at (Angell). p. 3	A22.4:27
Roundworms in sheep, goats, and cattle, treatment of (Stiles):	A27.8:14
1901	A4.4:35
1902. p. 7	,
See also Verminous diseases.	121.0.00
Rove beetle, another parasitic (Coquillett). 1891. p. 318	A9.7:3
Rowe, H. M. "Big head" (disease) of sheep in Utah. p. 230	A4.1:901
Royal Agricultural Academy of Prussia. See Poppelsdorf. Prussia.	
Royal Agricultural College of England. See Cirencester, England.	
Royal Forest School of Bavaria. See Aschaffenburg, Bavaria.	
Royal Institute for Fruit and Vine Culture of Prussia. See Geisen-	
heim-on-the-Rhine.  Royal Pruggian Mateorological Institution comicantennial of colo-	
Royal Prussian Meteorological Institution, semicentennial of, cele-	A29.6:25
bration of (Abbe). 1897. p. 491 Rubber cultivation in Porto Rico (Cook). 1900	AB.4:28
Rubenson, Robert, short biography of. 1902. p. 488	A29.6:30
Rubenson, Robert, short biography of. 1902. p. 488	
p. 493. Ruffin, John N. Butter in Paraguay. p. 521	<b>A</b> 4.1:898
Rufous scale, West Indian, report of (Cockerell). 1892. p. 381	A9.7:4
Rufous scale, West Indian, report of (Cockerell). 1892. p. 381 Runner's white corn. p. 186. Rural art, current publications in. p. 517	A1.1:874
Rural art, current publications in. p. 517	A1.1:870
Rural common school, some problems of (True). 1901. p. 133	A1.10:901
Rural cooperative banks in Russia. 1891. p. 146	A41.8.29
How insects affect health in (Howard). 1902	A1.9:155
Teaching domestic science in (Breed). 1902. p. 91	A10.3:120
same (Jacobs). 1902. p. 96	A10.3:120
same (Jacobs). 1902. p. 96	A1.1:868
Rural free delivery:	•
Is it advisable to distribute night forecasts of Weather Bureau by? (Blystone). 1902. p. 191.  Relation to road improvement (Machen). 1901. p. 92	4.00.0.01
by? (Blystone). 1902. p. 191	A29.3:31
Relation to road improvement (Machen). 1901. p. 92	A2Z.3:Z1
Report on (Greathouse). 1900. p. 513	¥1.10.000
Routes, March 1. 1901 same, sketch. 1901. p. 691	71 10.001 71.10:900
Wagons of, weather symbols on (Pindell). 1902. p. 208	A 20 2 21
Weather forecast cards by, note on (Abbe), 1900, p. 162	A 29.6:28
Rural life, what can colleges of agriculture do to nourish a hearty	
Rural life, what can colleges of agriculture do to nourish a hearty sentiment for (Davenport). 1896. p. 82  Rural organizations, history of our. p. 437	A10.3:41
Rural organizations, history of our. p. 437	A1.1:875
Kural population, relation of roads to (Dodge). 1902. p. 34	A22.3:23
Rural production, applied science as a factor of. 1885. No.20. p. 31	A27.9:23
· ·	•

	Classification no
Rural publications, Agriculture Department, recent:	
1871. p. 410	
1872. p. 398.	A1.1:872
1873. p. 311 1874. p. 437	A1.1:874
Rural road naming and house numbering (Davidson). 1901. p. 19	A22.3:21
Rural schools. See Schools, rural.	
Rusk, Jeremiah McLain:	
Address of, before convention of National League of Good Roads, Washington. 1893. p. 57	A10.3:14
Animal Industry Bureau, letter regarding establishment of, etc.	2220.0.14
1890	A1.2:An 5 <sup>2</sup>
Annual reports [and] selected correspondence relating to export	440700
trade in live stock and meat products, 1889–92	A1.2:R89
Live stock and meat products, selected correspondence relating to export trade in. 1893	A1.8:53
Root-rot of cotton, circular of inquiry on. n.d.	A28.4:9
Straw and stubble of wheat, oats, rye, and barley, questions	
asked and specimens of, solicited. n.d	A28.4:12
See also, for reports as Secretary of Agriculture, 1889–1892	A1.1:
from governor's message. p. 6	A22.4:33
Russell, Fremont L. See, as joint author, Gowell, Gilbert M.	1122. 1.00
Russell, H. L. Cabbage and allied plants, bacterial disease of.	
1898. p. 86	A10.3:49
Russell, John L. Seasons, natural phenomena of, connection of with agriculture. p. 329	A1.1:864
Russell, Thomas:	A1.1.001
Daily river stages on principal rivers of U.S., 1890–92	A29.10:4
River observers, special, instructions for. 1892	$A29.12:R52^{1}$
River stage predictions in United States. 1894. p. 89	A29.3:11 <sup>1</sup>
River stages, report of. p. 483	A29.1:891 • A 90 Q.7
Russia:	A20.5.1
Agriculture in. 1875. p. 36 Black soil of (Grandeau). 1872. p. 501	A27.9:13
Black soil of (Grandeau). 1872. p. 501	A27.9:10
Cereals and forage plants collected in, by M. A. Carleton, for	
Section of Seed and Plant Introduction, Agriculture Department. 1899	AR R-4
Cereals of—	110.0.1
adapted for cultivation in United States (Carleton). 1900	A6.3:23
official returns of. 1891. p. 474. Climatological atlas of, notes on (Abbe). 1900. p. 343	A27.9:29
Climatological atlas of, notes on (Abbe). 1900. p. 343	A29.6:28
Crops of, estimates of (Peters). 1901.  Egg exports from (Holloway). p. 512.	A27.4:14 A4 1:900
European, yield of field crops in. 1884. No. 9. p. 37	A27.9:22
Flax and hemp in. 1869. p. 237	A27.9:7
Flax culture in. 1892. p. 75.	A11.5:4
Fruits of, adaptation of, to extreme northern portions of United States (Lyon). 1888.	A20.3:2
Grain exports, removal of restrictions upon. 1892. p. 282	A27.9:30
Grain-producing districts of (Moffat). 1882. No. 51. p. 14	A27.9:20
Hessian fly in (Koeppen). 1883. App., p. 41	A8.1:3
Leather industry of (Holloway). p. 528	A4.1:899
Live stock in, for 1898. p. 606	A4.1:901 A8 1:3
Locust in. 1883. p. 64.  Meteorology in, notes on (Abbe). 1899. p. 103	A29.6:27
Mineral phosphates of (Yermoloff). 1873. p. 22	A27.9:11
Northern, grain in. 1870. p. 89	A27.9:8
Rinderpest, official experiments in vaccination for. 1866. p. 235.	A27.9:4
Rural cooperative Danks in. 1891. p. 146	AZ1.9:29 A10 8:19
Wheat of British imports of 1852–87. n. 39	A27.9:6
Rural cooperative banks in. 1891. p. 146. Soil investigations (Sibirtzev). pp. 704, 807. Wheat of, British imports of 1852-67. p. 39. Wheat production and exportation in, course of, 1880-96.	A12.4:10
See also Caucasus — Odessa — St. Petersburg.	
Russian thistle:	10 4:0
Circular relative to (Dewey)	A0.4:3

	Classification no
Russian thistle—Continued	Classification M
Its history as a weed in United States, with an account of the means available for its eradication (Dewey). 1894	A6.3:15
Russian thistle and other troublesome weeds in wheat region of Minnesota and North and South Dakota. 1893	A1.9:10
Russian vetch. See Vetch. Russian zyemstvos, conflict of, with enemies of agriculture (Mora-	
chevski). 1902. p. 61 Rust, George W. Calf-raising on plains. p. 177.	A9.6:38
Rust. See Cereals — Orange — Prune.	
Rust mite and other orange pests, notes on. 1883. p. 9	A9.3:1 A1.1:862
Flora of Black Hills of South Dakota. 1896. p. 463	
Flora of the sand hills of Nebraska. 1895. p. 133	
of Rocky Mountain region. 1897	A3.3:5
Ryder, Henry B. Farm animals of Europe. 1886. p. 353	
Crop condition, monthly notes on	A27.9: A27.1:
European, production. 1891. p. 338	A27.9:29
Rusted, request for specimens of (Dabney). 1894	A28.4:14
Situation in 1891. p. 478	A27.9:29
Straw and stubble of, specimens of, requested (Rusk). n. d	A28.4:12 
Rye gall-gnat: Description of (Loew), 1883. App. p. 6	A8.1:3
Description of (Loew). 1883. App. p. 6.  New crop of, 1861, observations on (Wagner). 1883. App., p. 8.  See also Hessian fly.	A8.1:3
Rykatcheff, M. Balloon ascension, results of, at St. Petersburg,	A 90 A 99
May 20 to June 1, 1878. p. 392. Sac and Fox Indian Agency, statistics of. 1885. No. 15. p. 38	A29.6:28 A27.9:23
Saccardo's Sylloge, genus Scleroderma in (Ellis). 1889. p. 23	A28.5:5
Saccharine sorghums, seeds of, distributed by Section of Seed and	A7.3:65
Plant Introduction, Agriculture Department. 1899	A6.6:3
yielding plants. 1869. p. 457. Sachaline. See Giant knotweed.	A27.9:6
Sacramento, Cal.:	A29.6:25
Electric storms at, notes on (Abbe). 1897. p. 542	
infected. 1899same. Aug. 18, 1900	A4.5:43 A4.5:69
Sacramento County, Cal., cattle quarantine order for. Feb. 26, 1900 Sage, John R.:	A4.5:59
Weather forecasts, what classes are most benefited by? are they just what are needed? are they properly disseminated and	
	A29.3:24
utilized? 1899. p. 40	
St. Elmo's fire, note on (Abbe). 1898. p. 565	A29.6:26
St. Gall, Switzerland, cost of hauling farm products over wagon roads at (Richman). p. 11	A22.4:27
Ground temperature observations at. 1902. p. 301	A29.6:30
St. Kitts, W. I.:	A29.6:29
Climatology of— 1899 (Alexander). p. 583	A29.6:27
1900 (Abbe). p. 66	A29.6:28
1899 (Alexander). p. 583	A29.6:28 A29.6:29
1001 (1110AAHUU). P. 801	

	Classification no.
St. Kitts, W. I.—Continued	
Hurricanes of (Alexander)—	
1899. p. 409	A29.6:27
1902	A 29.3:32
Rainfall on (Alexander). 1900. p. 487	A29.6:28
See also Basseterre.	
St. Landry Parish, La., soils and products of (Rapley). 1884. p. 29.	A1.8:35
St. Lawrence Island, climate of, 1894-99 (Henry). p. 457	A29.6:27
St. Lawrence River, hailstorm on, notes on (Abbe). 1901. p. 506.	A29.6:28
St. Lawrence Valley, high areas north of, in October, November,	4.90 <i>a</i> .99
and December (Garriott). p. 292	A29.6:23
Hailstorm, severe, at. 1902. p. 487	A29.6:30
House sparrow and European tree sparrow at, history of (Wid-	420.000
	A5.3:1
Live stock at. 1868. p. 22	
Precipitation at. 1889–91. p. 108	A29.6:20
Screw worm in, hominivorous habits of (Murtfeldt). 1891. p. 200.	A9.7:4
Tornado of May 27, 1896, at—	
low pressure in (Baier). p. 332	A29.6:24
origin of (Walsh). 1897. p. 308	A29.6:25
report on (Frankenfield). p. 77	
same (Abbe). 1896. p. 225.	A29.6:24
United States Weather Bureau and Forest Park meteorological	
observatories, abstract of comparison of minimum tempera- tures recorded at, 1891 (Hammon and Duenckel). p. 12	A29.6:30
See also Washington University.	A20.0.00
St. Martin's parish, La., soils and products of (Rapley). 1884. p. 9	A1.8:35
St. Mary County, Md., soil survey of (Bonsteel). p. 125.	A26.5:900 <sup>1</sup>
St. Marys Falls Canal, water level in, relation of certain atmospheric	
changes to. 1894	A29.2:Sa2
St. Mary's Parish, La., soils and products of (Rapley). 1884. p. 20 St. Michael, Alaska, ice and navigation at, notes on, 1878-99 (Abbe),	A1.8:35
St. Michael, Alaska, ice and navigation at, notes on, 1878–99 (Abbe),	100 000
p. 162	A29.6:28
St. Paul, Minn., frost formation in, note on (Abbe). 1897. p. 401  See also Minnesota good roads convention.	A29.6:25
St. Petersburg, Russia:	
Balloon ascensions at, results of, May 20 to June 1, 1878	
(Rykatcheff). p. 392	A29.6:28
Dead animals in, disposition of (Holloway). p. 361	A4.1:899
St. Thomas, W. I., dairy conditions in (Pearson). p. 38	A4.1:901
St. Vincent eruption, meteorological conditions following, 1902	100 000
(Kimball). p. 267.	A29.6:30
Salem area, New Jersey, soil survey of (Bonsteel and Taylor). p. 125. Salinas Valley, lower, California, soil survey of (Lapham and	A26.5:901 <sup>1</sup>
Heileman). p. 481	A26.5:901 <sup>1</sup>
Salinas Valley, Cal., irrigation problems in, report on (Marx). 1901.	1420.0.001
p. 193	A10.3:100
Salinas Valley, Monterey Co., Cal., water-bearing gravels and forma-	•
tions tributary to underground water supply of (Nutter).	
1901. p. 208	A10.3:100
Salisbury, George N.:	
Forest clearing and cultivation, effect of, upon water supply and soil, rainfall, temperature. 1899. p. 91	A29.3:24
Irrigation and its relation to State weather-service work. 1894.	1140.0.2
p. 24	A29.3:14
Meteorological study, under existing conditions of Weather	
Bureau station work, is it practicable to require assistants to	
pursue a systematic course of? 1902. p. 82	A29.3:31
Utah, characteristics of, in relation to State weather-service work.	A 90 9.14
Weather Bureau and the public, relations between. 1899. p. 14.	A29.3:14 A29.3:24
Salisbury, N. C., feeding stations at, regulations concerning cattle	D40,0,42
transportation at—	
Jan. 3, 1898	A4.5:15
Jan. 3, 1898	A4.5:31
Jan. 20, 1900	A4.5:57

	Classification be
Salmon, Daniel Elmer: Address of, before national cattle growers' convention, Kansas	
City. 1887. p. 7.	A1.8:43
Animal diseases, some examples of development of knowledge	
concerning. 1899. p. 93	A1.10:899
same, p. 53 Animal Industry Bureau, Agriculture Department, work of, for	A4.1:899
farmer. 1897. p. 236	A1.10:897
same, reprinted. p. 25	A4.1:897
Animals, contagious diseases of— national legislation for, address on, before 3d national con-	
vention of stockmen, Chicago, Nov., 1885. p. 13	A1.8:38
prevention of, in America. 1883. p. 32  Animals and their products, exports of. 1897	
Animals and their products, exports of. 1897	A4.4:17
Animals slaughtered for food, necessity of inspecting. 1889. p.	A7.3:25
Argentina as a market for pure-bred cattle from United States,	A1.0.20
preliminary report on. 1902	A4.4:37
Beef supply of United States and export trade in animals and	A 1 1 000
meat products. 1889. p. 64 same, 1890	A1.1:889 A4.2:B39
same, 1890 Black quarter or black leg. p. 84	
same, n. d.	A4.4:6
Bovine tuberculosis—	
legislation with reference to. 1901	A4.3:28
Rutter making recently natented process of	A4.3:33
Federal meat inspection. 1894. p. 67	A1.10:894
Food products from diseased animals. p. 250	A4.1:901
Foot-and-mouth disease, warning to all owners of cattle, sheep,	
and swine. 1902  Fowl cholera, prevention of. 1881. p. 314	A4.4:38
same (circular). 1881. p. 314	A1.6:34 A4.2:F82
Hog cholera, inoculation for prevention of, experiments with.	13.2.2.1.02
1892	A1.9:8
Hog cholera and swine plague. 1894	A1.9:24
Hog cholera; its history, nature, and treatment, as determined by inquiries and investigations of Bureau of Animal Industry.	
1889	A1.8:46
Hog fever, investigation of, in North Carolina. p. 432	A1.1:878
Live stock, foreign and interstate shipments of, Federal inspection	44700
of. p. 237Lumpy jaw or actinomycosis in cattle, investigations relating to	A4.1:901
treatment of—	
1893. p. 109	A4.1:891-2
1893	
1894	A4.1:893-4 A4.4:7
Mexico as market for pure-bred beef cattle from U.S. 1902	A4.3:41
Pathological conditions found in meat inspection. p. 52	A4.1:900
Poultry raising on farm. 1901	A1.9:141
Rabies, its cause, frequency, and treatment. 1900. p. 211	A4.1:900 A1.10:900
same, p. 122	
Rabies in District of Columbia. 1900	
Sheep scab, work against. p. 69.	A4.1:900
Southern cattle fever, investigation of. 1880. p. 98	A1.6:22
Swine plague, fowl cholera, and southern cattle fever, investiga- tion of p. 258	A1.1:881-2
tion of. p. 258 Swine plague, investigation of. 1878. p. 321	A1.1:878
Swine plague and fowl cholera, investigation of, second report.	I
1880. p. 13 same, p. 387 Swine plague in North Carolina. 1879. p. 123	A1.6:34
Swine plague in North Carolina 1870 n 192	A1.1:880 A1 R-19
Texas cattle fever and fowl cholera, investigation of. 1883. p. 18.	A1.1:883
Trichiniasis, extent of, in America and Europe. p. 475	A4.1:884
same. 1884. p. 269	A4.2:An5

Index	Classification no.
Salmon, Daniel Elmer—Continued	CIRRELECTION NO.
Tuberculin test for tuberculosis. 1901. p. 581	A4.3:32
losis. p. 257  Wheat as food for growing and fattening animals, n. d  See also, for report as Chief of Veterinary Division, Agriculture	
Department, 1883; for reports as Chief of Animal Industry Bureau, 1884–1902 Salmon, Daniel Elmer, and Smith, Theobald. Cattle, infectious dis-	A4.1:
eases of. p. 371	A4.2:C29 <sup>2</sup>
Cattle ticks (Ixodoidea) of United States. p. 380	A4.1:897
same. Sheep scab, results of work against, in 1901. p. 583	A4.3:21 A4.1:901
Surra, emergency report on. p. 41	A4.1:901
Salmon ladders, note on. 1867. p. 207. Salmon propagation in Australia. 1867. p. 207. Salt:	A27.9:5
Dairy, study of various brands of (Lawson). 1899. p. 28	
1900. p. 5 Used in packing. p. 491	A1.9:114 A4.1:884
same. 1884. p. 288 Salt and resin wash. See San Jose scale.	
Salt Lake Valley, Utah. Soils of (Gardner and Stewart). n. d Same (Gardner and Stewart). 1900. p. 77	A26.4:4 A1.8:64
Salt-marsh lands, reclamation of (Means). 1901	A26.4:8 A1.10:895
Irrigation investigations in, 1900 (Code). 1902. p. 83	A10.3:104 A10.3:119
Saltbushes:	
Commercial, seeds of (Collins). 1901	A1.9:108
same (Smith). 1896. Salted meats. See Meat — Pork.	A3.4:3
Salts:	
Dissolved, influence of, on capillary rise of soil waters (Briggs and Lapham). 1902. p. 5.	A26.3:19
Distribution of, in alkali soils (Hilgard). 1896. p. 66	A10.3:30 A1.8:64
Occurring in alkali soils, solution studies of. 1901 Salviate, E. de. Dairying, cooperative, in Sweden; translated by	
A. W. Augerer. 1872. p. 452  Sammis, J. L. See, as joint author, Grindley, H. S.  Samuels, Edward A.:	A27.9:10
Birds on farm, value of. p. 201	A1.1:867
Mammalogy and ornithology of New England, with reference to agricultural economy. p. 265	A1.1:863
fying injurious or beneficial species. p. 386	A1.1:864
at, in 1889 (Vasey and Rose). 1890. p. 20	A6.5:1
San Bernardino Valley, Cal., studies of subterranean water supply	A10.3:119
Sanborn, J. W. Soil physics, relation of tillage to. 1891. p. 97 Sanborn, T. F. Sorghum-sugar experiments at Medicine Lodge,	A10.5:3
Kans. 1889. p. 77. See also, as joint author, Carr, Oma.	A7.3:26

	Index
O J.	Classification no.
Sand: Drifting, French experiments in fixing. 1875. p. 520	A27.9:13
Rains of, note on (Abbe). 1899. p. 158.	A29.6:27
Rains of, note on (Abbe). 1899. p. 158. Sand and soil binders, grasses as (Scribner). 1894. p. 421.	A1.10:894
Sand-binding grasses (Scribner). 1898. p. 405.	A1.10:898
Sand blizzard, note on (Abbe). 1895. p. 381	A29.6:23
gel). 1895. pp. 749. 835	A10.6:5
gel). 1895. pp. 749, 835	A29.6:29
Sand hills of Nebraska, flora of (Rydberg). 1895. p. 133	A6.5:3
Sand vetch. See Vetch.	
Sandberg, J. H. See, as collector, Holzinger, John M.	
Sanders, J. H.:  Hamburg international exhibition, 1883, report of. p. 371	A 4 1 · 894
same, 1884. p. 181	A4.2:An5
Horse breeding for turf, road, and farm. 1883. p. 229	A1.7:2
Sanders, William R. Sheep, fine-wooled, p. 185	A1.1:864
Sanderson, E. Dwight, and Penny, Charles L. Hydrocyanic-acid gas as insecticide on low-growing plants. 1900. p. 60	10.000
as insecticide on low-growing plants. 1900. p. 60	A9.6:26
Sanderson, E. Dwight: Aphids of apple, pear, and quince. 1902. p. 123	A10.3·115
Delaware—	1110.0.110
entomological notes from. 1902. p. 97	A9.6:37
insects in, notes on. 1900. p. 66.	A9.6:26
San Diego, Cal.:	A 90, Ø.90
Climatology of, notes on, 1849-99 (Abbe). p. 20	A 29.0:28 A 20 R 28
San Diego County, Cal.:	120.0.20
Coleoptera observed in, notes on habits of some species of (Blais-	
dell). 1892. p. 33	
Forests of (Kinney). 1888. p. 198.	A13.3:2
Trees and shrubs of. 1888. p. 202 Sandwich Island sugar-cane borer. 1888. p. 185	A13.3:2 AQ 7.1
San Francisco, Cal.:	AU. 1 . 1
Climate of (McAdie). 1899	A29.3:28
Coccidæ, some found by Alex. Craw in course of his quarantine	
work at. 1896. p. 42.  Kites at, experiments with (Hammon). 1896. p. 288	A9.8:4
Meteorological observations of, 1893–94 (Featherstone). p. 128	A29.6:24 A29.6:22
Port of, scale insects found upon plants entering, list of (Craw)	
Precipitation at, 1889–91. p. 108	
Trade of, in agricultural products, 1864-65. No. 6. p. 28	A27.9:3
Trade with. 1867. p. 373	A27.9:5
Weather forecast district, report of— Feb., March, 1899 (Willson)	A 20 6.27
AprJuly, Sept., 1899-July, 1900 (McAdie)	A29.6:
Sept., Oct., 1900 (Willson)	A29.6:28
Nov., 1900-July, 1901 (McAdie)	<b>A29.6</b> :
SeptNov., 1901 (McAdie)	
JanOct., 1902 (McAdie)	A29.6:30
San Francisco mountain region: Arizona—	
biological survey of, results of (Merriam). 1890	A5.5:3
forest trees of (Merriam). 1890. p. 119	A5.5:3
Reptiles and batrachians of (Stejneger). 1890. p. 103	A5.5:3
San Gabriel area, California, soil survey of (Holmes and Mesmer).	
p. 559	A26.5:9011
Good Roads, Washington. 1893. p. 69	A10.3:14
Sanitary climatology circulars	A29.15:
Sanitary officials, list of:	
1898. p. 616	LA1.10:898

1898. p. 616.
1899. p. 698.
1900. p. 653.
1901. p. 628.
Sanitary significance of forests (Fernow). 1893. p. 171.

A1.10:898
A1.10:899
A1.10:900
A1.10:901
A13.3:7

	Classification no
San Jacinto River, Cal., problems of water storage on torrential	,
streams of southern California as typified by (Schuyler).	
1901. p. 353	A10.3:100
San Joaquin County, California, resources of (Holden). 1868. p. 363.	A27.9:6
San Josquin River, Cal., irrigation from (Soulé). 1901. p. 215	A10.3:100
San Joaquin Valley, California, locusts of (Coquillett). p. 289	A1.1:885
San Jose or pernicious scale:	
Aphelinus fuscipennis, an important parasite upon, in Eastern	
United States (Johnson). 1900. p. 73	A9.6:26
United States (Johnson). 1900. p. 73 Charlottesville, Va. (Schwarz). 1894. p. 247	A9.7:6
Connecticut (Dritton). 1888. p. 81	A9.6:17
Cooperation for control of, is it practicable? (Alwood). 1896.	1000
p. 80	A9.6:6
Dried fruit (Howard). 1898. p. 7	A9.6:18
Eastern United States, appearance in, and measures taken to pre-	A9.5:3
vent its spread and to destroy it (Howard). 1893	A9.7:7
Experimental work in New York State against (Felt). 1902. p. 35.	A9.6:37
Experiments with winter washes against, season of 1894–95	A. 0.01
	A9.7:7
(Marlatt). 1895. p. 365.  How to control, circular on (Marlatt)	A9.5:42
Hydrocyanic-acid gas as remedy for (Johnson). 1898. p. 39	A9.6:17
Insecticides for, various, some practical experiments with, in	110.0.1
Georgia (Scott). 1902. p. 41	A9.6:37
Japan, preliminary report on (Marlatt). 1902. p. 41	A9.6:31
Lime, sulphur, and salt and resin washes for, use of, in Ohio	
(Burgess). 1902. p. 33.	A9.6:37
same, in Maryland (Quaintance). 1902. p. 37	
Michigan, present status in (Barrows). 1897. p. 27	A9.6:9
Native home of, résumé of search for, in Japan and China (Mar-	
latt). 1902. p. 65	A9.6:37
New Jersey (Smith)—	•
1894. p. 163	A9.7:7
1898. p. 32	A9.6:17
Notes on (Howard). 1895. p. 283	A9.7:7
Occurrences in United States, with full account of its life history	40.00
and remedies to be used against it (Howard and Marlatt)	
Original home of (Howard and Marlatt). 1899. p. 36	A9.6:20
Report on—	AO 7.6
1894. p. 360 1896–97 (Howard)	A9.6:12
Virginia (Coquillett) 1894 n 253 324	A9.7:6
Virginia (Coquillett), 1894. p. 253, 324. San Jose scale and its nearest allies (Cockerell). 1897.	A9.8:6
San Juan, Porto Rico, temperature, rainfall, and humidity at	A.O.O
(Phillips). 1899. p. 319	A29.1:898
San Mateo (Cal.) Agricultural Association fair, cattle exhibited at,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
special order concerning. Aug. 18, 1900.	A4.5:69
San Pedro Martin Island, plants collected at, by Edward Palmer in	
1890, list of (Vasey and Rose). 1890. p. 78	A6.5:1
Sanpete County, Utah, soil survey in (Means). 1900. p. 115	A1.8:64
Santa Agueda, Lower California, plants collected by Edward Palmer	
in 1890 at, list of (Vasey and Rose). 1890. p. 80	
Santa Ana, Cal., soil survey around (Holmes). p. 385	A26.5:900 1
Santa Barbara, California, climate of. 1871. p. 196	A27.9:9
Santa Rosalia, Lower California, plants collected by Edward Palmer	
in 1890 at, list of (Vasey and Rose). 1890. p. 80	A6.5:1
Santilian, Raiael Aquilar y. See Aquilar y Santilian, Raiael	10700
Santillan, Rafael Aquilar y. See Aquilar y Santillan, Rafael	A27.9:8
Sapindagem three new appairs of from mostern Merrica and Larger	A27.9:12
Sapindaceæ, three new species of, from western Mexico and Lower California (Radlkofer). 1893. p. 367.	A & K - 1
Sarcopsylla gallinacea. See Hen flea.	A6.5:1
Sarcoptidæ, parasitism among, origin and development of (Gar-	
man). 1891. p. 182	A9 7.4
man). 1891. p. 182 Sarcosporidia, presence of, in birds (Stiles). 1893. p. 79. Sargent, A. A. Viticulture in California, 1882. p. 157.	A4.3:3
Sargent, A. A. Viticulture in California, 1882, p. 157	A1.8:22
Sargent, A. A. Viticulture in California. 1882. p. 157	A29.6:30

•	Classification no.
Sartori, Giuseppe. Dubernard method for examination of butter.	
1000	A7.3:24
Sausages, United States, in Gibraltar (Sprague). p. 519	A4.1:899
Sausalito, California, storm wave at (Abbe). 1895. p. 424	A29.6:23
Cranberry culture. 1894	A1.9:13
Economic plants in collection of Agriculture Department, catalogue of. 1891	A1.8:47
Experimental Gardens and Grounds Office, Agriculture Department, work of, for farmer. 1897. p. 180	A1.10:897
Garden, notes of the—	
1871. p. 476 1872. p. 72	A27.9:10
Grapevine, pruning and training, remarks on, with quotations and illustrations from various authors. p. 97	A1.1:866
Horticulture and kindred subjects, papers on. 1891	A1.8:48
national Exhibition. 1876.  Plants, bulbs, tubers, etc., for distribution from U. S. propagating	A1.2:P53
garden, catalogue of, with report on object and aims of gar-	
den. 1862  Plants in exotic collection of Department of Agriculture, descrip-	A1.8:2
tive catalogue of. 1872	A1.8:6
Pruning of trees and other plants. 1898. p. 151	A1.10:898
Soils and products of Florida, observations on. 1883  Tea culture, experiment in, report on tea gardens of Dr. Charles	
U. Shepard, Pinehurst, S. C. 1897	A14.4:1
Tea culture as a probable American industry. 1879	
prospects of. p. 28	A1.1:881-2
See also, for reports as Superintendent of Experimental Garden, 1862-1867; and as Superintendent of Gardens and Grounds,	
1868–1899  Sanadam William abatab of life of (Will) 1000 m 605	A14.1:
Saunders, William, sketch of life of (Hill). 1900. p. 625	
Dogwood, report on. 1890. p. 239	A9.7:2
New, which is injurious to hollyhocks (Cockerell). 1894. p. 251.	
Rose, in United States (Riley). 1892. p. 6.	A9.7:5
Strawberry (Malley). 1889. p. 136.	
Sweet potato, report on. 1888. p. 43	
same, new (Marlatt). 1892. p. 24	A9.7:5
Wheat and grass, notes on (Riley and Marlatt). 1891. p. 168	A9.7:4
Willow-shoot, report on (Riley). 1888. p. 8.  See also Cimbex — Harpiphorus maculatus — Monostegia ignota —	A9.7:1
Nematinæ—Pear slug—Sweet potato saw-flies—Wheat saw-flies.	
Saxony:	
Beef and pork in, consumption of. 1887. p. 591	A27.9:25
Statistics of. 1876. p. 496	A27.9:14
Tuberculosis among cattle in. p. 99	A4.1:893-4
Saylor, Charles F.:	
Beet-sugar industry of United States, report as special agent—	A1.2:B39 <sup>2</sup>
1897	
same. p. 161	A1.2:B39*
1898. p. 15	A1.Z:D00*
1898. p. 13 1900. p. 5 1901. p. 9	WT'9:0A
1901 - 407	A1.5:/Z
1901. p. 487	A1.10:901
Scale. See also Red scale.	
Scale insects:	
American fruit imported into Germany (Reh). 1900. p. 79	A9.6:22
California, report for 1891 (Coquillett). p. 13.	
Destroying, various methods for, report on (Coquillett)—	
1888. p. 123.	A1.1:888
same. p. 123	A9.1:888
1888. p. 123.  same. p. 123.  1890. p. 19	A9.3:23

Index	Classification no.
Scale insects—Continued	
Enemies in California (Smith). 1896. p. 46.  Enemy of citrus trees (Marlatt). 1900. p. 247.	A9.6:6
Enemy of citrus trees (Mariatt). 1900. p. 24/	A1.10:900 A1.1:887
Experiments against (Koebele). p. 143.  Experiments on, progress in, etc. (Hubbard). p. 152.	A1.1:883
same. p. 152.  Found upon plants entering port of San Francisco, list of (Craw), 1896. p. 40	A9.1:883
Found upon plants entering port of San Francisco, list of (Craw),	A O R.A
1896. p. 40  Gas treatment for, report on (Coquillett)—  1887. p. 123	A9.0.4
1887. p. 123 same. p. 35	A1.1:887
same. p. 35	A9.3:15
1890. supplementary. p. 41	A9.7:1
Hydrocyanic acid gas treatment for, history of (Coquillett). 1891. p. 457 Important, two, parasites of (Howard). 1894. p. 5	A9.7:3
Important, two, parasites of (Howard). 1894. p. 5	A9.7:7
Injurious, danger to American horticulture from introduction of	
(King). 1901. p. 171 New, from California (Coquillett). 1891. p. 382	A10.3:99 A9.7:3
New and old, notes on (Johnson). 1896. p. 74	A9.6:6
Report of Entomologist on. p. 276. Some, of orchard (Howard). 1894. p. 249.	A1.1:880
Temperature control of (Marlatt). 1899. p. 73	A 1.10:894 A 9 6:20
Useful American (Howard). 1897. p. 38	A9.6:9
See also Aleurodidæ — Aleyrodes — Aspidiotus ostreæformis —	
Blackscale — Coccide — Coccids — Cottony cushion-scale — Date-palm scale — Eimeria stiedæ — Eimeriella — Fluted	
scale — Icerya — Jamaican coccidæ — Japanese coccidæ —	
Lecanium — Maple pseudococcus — Mytilaspis pomorum —	
Orange — Peach lecanium — Peach-tree scale — Red scales —	
San José scale. Scandinavia:	
Agricultural education in, notes on (Woll). 1897. p. 7	A10.4:32
same (Woll). 1898. pp. 605, 703	A10.6:9
Seed-control stations in, report on (Woll). 1899. p. 4	A12.3:22 A10.6:10
Scatchkow, K. Locusts in China, extermination of. 1883. App.,	
p. 65. Scelle, Ch. Egg sales of Paris, 1896; translated by Newton B.	A8.1:3
Ashby. p. 339	A4.1:899
Scepsis edwardsii, preparatory stages of (Dyar), 1890, p. 360	
Scheffer, Theo H. Twig girdler, notes and observations on. 1895.	A O. 7.7
p. 345 Schickler, C. Pomology in Wurtemberg. 1870. p. 153	A9.1:1 A27.9:8
Schipps, K. Halo phenomena, observation of. 1897. p. 294	
Schizoneura panicola thos. and S. corni fab. identity of (Osborn).	10.7.0
1889. p. 108 Schloesing's method. See Nitric acid in soils.	A9.7:2
Schmidberger, ——. Pear midge, habits of. p. 286	A1.1:885
Schmoeger-Neubert. Estimation of content of fat in milk by	
method of (Kühn). 1890. p. 158	A7.3:24
	A29.6:29
School books, errors in, notes on (Abbe). 1900. p. 16	A29.6:28
Schools: Arbor Day observance in (Northron), p. 27	A1.8-58
Arbor Day observance in (Northrop). p. 27 Bird day in	A5.4:17
Common—	
agriculture in. 1868. p. 92 same (Adams). 1885. p. 174 as affected by roads (Abercrombie). 1902. p. 39	A27.9:0 A1.7:9
as affected by roads (Abercrombie). 1902. p. 39	A22.3:23
Meteorology and relation of (Kimball). 1902. p. 131	A29.6:30
same. 1899. n. 469	AZ9.0:ZZ A29.6:27
Meteorology and relation of (Kimball). 1902. p. 131  Meteorology in (Abbe). 1894. p. 512  same. 1899. p. 469  Primary work on meteorology for use of (Connor). 1899. p. 102.	A29.3:24
rubiic—	
how may farmers' organizations hasten teaching of agriculture in? (Voorhees). 1902. p. 89	A10.3:120
( ·	VIVIAUV

	Classification no
Schools—Continued	
Public—Continued	
meteorological observations at, notes on (Abbe). 1899. p.	A 00 0.07
550 same (Wilkinson). 1899. p. 550.	A29.6:27
meteorology in (Abbe). 1896. p. 458.	A29 6.23
same (Abbe). 1897. p. 17.	A29.6:25
same (Abbe). 1897. p. 17	A10.3:120
Rural—	
agriculture in (Powell). 1902. p. 109.	A10.3:120
grounds of, tree planting on (Hall). 1901	A1.9:134
Technical, mechanical, drawing in (Flather). 1894. p. 81	A10.3:20
See also Agricultural colleges — Technical schools — Welch, A. S.	
Schott, Charles Anthony:  Magnetic survey of North America. 1895. p. 460	A 20 3.11 2
Rainfall and charts of rainfall. 1902. p. 241	A 29 6:30
Schöyen, W. M. Insects of Norway and Sweden, notes on. 1897.	
p. 79	A9.6:9
Schreiber, Paul:	
Meteorological observations considered with special reference to	_
influence on vegetation. 1895. p. 395.	
Rainfall and charts of rainfall. 1902. p. 237	A29.6:30
Schrenk, Hermann von:	A 10 0.07
Catalpa, hardy, diseases of. 1902. p. 49	A13.3:37
Fungous diseases of forest trees. 1900. p. 199 New England conifers, some diseases of. 1900	A28.3:25
Red cedar, two diseases of, caused by Polyporus juniperinus n. sp. and Polyporus carneus nees, preliminary report. 1900	A28.3:21
Timber, decay of, and methods of preventing it. 1902	A19.3:14
Schrodt, M. Specific gravity of cow's milk, limits of. 1888. p. 154.	A7.3:24
Schroeder, Ernest C.:	
Blood and serum injections in connection with Texas fever inves-	4.4.1.000
tigations, experiment in. p. 43	
Bottom disease among horses of South Dakota. p. 371	A4.1:891-2
cattle. p. 273	A4.1:898
Southern cattle tick, vitality of. p. 41	A4.1:899
Texas fever organism, persistence of, in blood of cattle. p. 42	A4.1:899
Tubercle bacilli in milk of cows, experimental observations on	
presence of. 1894. p. 75	A4.3:7
Tuberculosis, prevalence of, among cattle in New York State. p. 66.	A4.1:893-4
See also, as collaborator, De Schweinitz, Emil Alexander; as	
joint author, Kilborne, F. L.—Smith, Theobald. Schroeder, Ernest C., and Cotton, W. E. Southern cattle ticks,	
growing noninfected and afterwards infecting them with	
Texas fever. p. 33.	A4.1:899
Schulte, J. I.:	
Grains, tillering of. 1899. p. 10	A1.9:105
Tobacco, work of agricultural experiment stations, with introduc-	
tion and comments by Milton Whitney. 1900	A1.8:63
Schultz, L. G. Sky polarization, study of, with reference to weather	A29.3:31
conditions. 1902. p. 28	A20.0.01
Mathematical analysis as applied to terrestrial magnetism, pres-	
ent condition of. 1895. p. 550.	A29.3:11 <sup>2</sup>
ent condition of. 1895. p. 550. Meteorology, address on, at British Association, Belfast. 1902.	
p. 448	A29.6:30
Schuyler, James D. Water storage, problems of, on torrential	
streams of southern California as typified by Sweetwater and	A 10 2.100
San Jacinto rivers. 1901. p. 353. Schuyler, Nebr., Sugar-beet Experiment Station, annual report of:	A10.3:100
1891 (Maxwell). n. 118	A7.3.33
1891 (Maxwell). p. 118	A7.3:37
1894. p. 37	A7.3:39
Schwarz, Eugene Amandus:	
Cicada, periodical, in 1897, circular on	
same. 1898	A9.5:30

index .	Classification ma.
Schwarz, Eugene Amandus—Continued	
Cotton-worm question in 1894. p. 315 Crow, insect food of. 1895. p. 57 Eumæus atala, notes on. 1888. p. 37	A9.7:7
Eumæus atala. notes on. 1888. p. 37	A5.3:p A9.7:1
Hippelates plague in Florida. 1895. p. 374	A9.7:7
Hylesinus sericeus, notes on. 1894. p. 254	A9.7:7
Islands. 1878. p. 347.	A9.2:C82
Islands. 1878. p. 347. Library pest, imported, report of. 1895. p. 396	A9.7:7
Red-legged flea-beetle, its injuries to orchard trees in Maryland	A9.7:5
and Virginia. 1893. p. 334. San Jose scale at Charlottesville, Va. 1894. p. 247.	A9.7:6
See also, as translator, Reh, L. Schweinitz, Emil Alexander, de-See De Schweinitz.	
Schweitzer, Paul, and Fox, Charles P. Meat analysis—testing of	
apparatus and method. 1891. p. 40. Schwolson, Orest. Solar radiation, observations of; how best made	A7.3:31
and compiled. 1896. p. 721	A29.3:11 <sup>3</sup>
Science:	A 07 A 00
Applied, as a factor of rural production. 1885. No. 20. p. 31. Poetry (Abbe). 1902. p. 269.	A27.9:23 A29.6:30
True relations of, to industries and arts (Wiley). p. 32	A1.7:2
Versus art (Roberts). 1898. p. 69 Scientific investigation, original, under certain conditions advisability	A10.3:49
of supplying employees of Weather Bureau with apparatus for	
carrying on (Fulton). 1902. p. 22	A29.3:31
Scientific investigators, training needed to become, notes on (Abbe).  1901. p. 447	A29.6:28
Scientific organizations, relations of weather officials with, how pro-	1.00.0.04
moted (Beals). 1899. p. 69 Same (Sims). 1899. p. 74	A29.3:24 A29.3:24
Scientific research, instruction in, notes on (Abbe). 1898. p. 413	A29.6:26
Scientific work of Agriculture Department, recommendation for appointment of director in chief of, etc	A1.2:Sci1
Scleroderma, genus, in Saccardo's Sylloge (Ellis). 1889. p. 23	A28.5:5
Scofield, Carl S. Algerian durum wheats, classified list, with descriptions. 1902	A19.3:7
Scolytidæ and their food plants, notes on (Blandford). 1894. p. 260.	A9.7:6
Scolytids, destructive, and their imported enemy (Hopkins). 1893.	A9.7:6
Scoresby, Wm., jr. Meteorological notes by, report on (Abbe).	A5.7.0
1897. p. 62	A29.6:25
Scorpions, report on. 1894. p. 260	A9.7:7
Agriculture and dairying in (Higgins). p. 213	A4.1:898
Cattle in, pleuro-pneumonia in (Reid). p. 401	A27.9:5
Fiber in, determination of (Aitken). 1894. p. 172	A7.3:43
Wheat experiments in. 1866. p. 386.  See also Ben Nevis observatory — Edinburgh.	A27.9:4
Scott, John. Beef, breeding and feeding for, and supplying market.	:-
Scott, Martin P. Lawes's views of fertility. 1883. p. 76	A1.7:2 A1.7:2
Scott, Robert H.:	A1.1.4
Paris, international meteorological conference at. Sept., 1896.	A 00 G.94
p. 333.  Weather maps and bulletins, daily, publication of. 1894. p. 6  Scott, Robert W. Kentucky sheep, improved. p. 334  Scott, W. H. College faculty meetings. 1895. p. 80	A29.3:11 <sup>1</sup>
Scott, Robert W. Kentucky sheep, improved. p. 334	A1.1:866
Scott. W. M.:	A10.5:24
Aphis, new species of, injurious to plums and peaches in Georgia,	10.2.25
preliminary note on. 1902. p. 56	A9.6:31 A9.6:26
Georgia, coccids in, fatal temperature for some. 1899. p. 82	A9.6.20
San Jose scale, some practical experiments with various insecticides for, in Georgia. 1902. p. 41	A9 6-97
order tot, in design, toom by tressessessessessessessesses	440.0.01

	Classification n
Scott, W. M., and Fiske, W. F. Curculio, jarring for, on extensive	
scale in Georgia, with list of insects caught. 1902. p. 24	A9.6:31
Scovel, J. V. H. Potatoes, experiments with. 1874. p. 331	A27.9:12
Scovell, Melville Amasa:	
Address of, as president of Association of Official Agricultural Chemists, at seventh annual convention. 1890. p. 6	A7.3:28
Burley tobacco, its growing and curing. 1901. p. 106	A10.3:99
Cows, testing as to milk and butter production, some notes in	A10.0.00
connection with. 1899. p. 123	A10.3:65
Dairy tests at World's Columbian Exposition, report of committee	
on. 1894. p. <b>52</b>	A10.3:20
Kjeldahl method applicable to determination of nitrogen in	) •
nitrates. 1887. p. 51	A7.3:16
See also, as collaborator, Wiley, Harvey Washington.	•
Scovell, Melville Amasa, Peter, Alfred Meredith, and Curtis, H. E.	
Fertilizers, potash in, report on some sources of error in de- termination of. 1896. p. 42	17 9.40
Screech owl. See Owl.	A7.0148
Screw worm, hominivorous habits of, in St. Louis, Mo. (Murtfeldt).	
1891. p. 200	A9.7:4
Screws, W. W. Address of, before national road conference, July,	
1894. p. 23	A22.3:10
Scribner, Frank Lamson-:	
Agrostology, economic and scientific, progress of. 1899. p. 347	A1.10:899
Agrostology Division, Agriculture Department—	10.100
publications of, list of. 1901	A3.4:36
work of, for farmer. 1897. p. 160.	
American grasses, report onsame, pt. 2	
same, pt. 3	
Economic grasses	A3.3:14
Flat pea, circular on. 1895	A6.4:4
same. 1899	A3:4:11
Fungicides, or remedies for plant diseases. 1888	
Fungous diseases of plants, outlines of certain, with remarks upon	
application of remedies. p. 76	A1.1:885
Grapevine—	A6.4:5
black-rot and brown-rot of, extent, severity, and treatment of,	
in northern Ohio, in 1889. p. 76	A6.3:11
fungus diseases of. 1886	A6.3:2
downy mildew and black-rot of, experiments made in treat-	
ment of, 1887, with chapter on apparatus for applying	
remedies for these diseases	
same. 1888	A6.3:10
Grass gardens. 1895. p. 301	A1.10:895
Acapulco, Mexico, collected by Dr. E. Palmer in vicinity of,	
list of. 1897. p. 7.	A3.3:4
as sand and soil binders. 1894. pp. 421, 580	A1.10:894
in Elliott's "Sketch of Botany of South Carolina and Georgia,"	
notes on. 1901	A3.4:29
new or little known, description of—	4000
1897. p. 5	
1898. p. 42 1901	A3.3:11
of salt marshes. 1895. p. 325.	A 1 10.805
useful and ornamental. 1896	A3.3:3
useful and ornamental. 1896	A3.4:2
Hungarian brome grass, circular on. 1894	A6.4:1
Ixophorus, genus. 1897. p. 5.  Lawns and lawn making. 1897. p. 355.	A3.3:4
Lawns and lawn making. 1897. p. 355.	A1.10:897
Mexican grasses, new or little known. 1899	A3.4:19
North American grasses, new species of. Feb., 1899	A3.4:9
same, June, 1899  Pacific coast, grass and forage plant investigations on. 1899	A3.4:10
Pasture plants, our native. 1900. p. 581	A1.10:900
· · · · · · · · · · · · · · · · · · ·	

Index	Classification mo.
Scribner, Frank Lamson—Continued	
Potato and tomato, treatment of, for blight and rot. 1897	A28.4:4
Range grass and forage plant experiments, cooperative, at High- more, S. Dak. 1899.	A3.4:21
same. 1900	
Sand-binding grasses. 1898. p. 405	A1.10:898
Seed distribution, records of, and cooperative experiments with	
grasses and forage plants. 1902.	A19.3:10
Southern forage plants. 1899  See also, for reports as Agrostologist, Agrostology Division, Agri-	A1.9:102
culture Department, 1895–1901	A3.
See also, for report as Chief, Vegetable Pathology Section, Agri-	
culture Department, 1887	A28.1:
See also, for report as Mycologist, Agriculture Department, 1886	A28.1:
Scribner, Frank Lamson-, and Ball, Carleton R. Grasses, miscellaneous notes and descriptions of new species. 1900. p. 39	A3.3:24
Scribner, Frank Lamson-, and Merrill, Elmer D.:	AU.U.24
Calamovilfa, notes on. 1901, p. 2	A3.4:35
Chætochloa, North American species of. 1900	A3.3:21
Grasses of herbarium of Dr. H. Muhlenberg. 1900.	
Mexican grasses, some recent collections of. 1900. p. 5	
Panicum, three new species of. 1901. p. 3	A3.4:35
notes on. 1900. p. 31.	A3.3:24
Scribner, Frank Lamson-, and Smith, Jared Gage:	
Hordeum and Agropyaon, genera, native and introduced species	
of. 1897. p. 23.	A3.3:4
Mexican grasses collected by E. W. Nelson in Mexico, 1894–95. 1897. p. 11	A3.3:4
Scribner, Frank Lamson-, and Viala, Pierre. Black rot of grapevine.	110.0.3
1000	A6.3:7
Scudder, Samuel H. Cranberry girdler, report on. 1894. p. 1	A9.7:7
Scuppernong wine, analysis of (Page). 1868. p. 362	A27.9:6
Scymnus: Australian, established and described in California (Riley). 1892.	
p. 127	A9.7:5
Two new species of (Sharp). 1889. p. 364.	A9.7:1
Sea:	
Ball lightning at, instance of (Seyboth). 1901. p. 249 Earthquake at (Abbe). 1895. p. 380	A29.6:29 A29.6:23
Effect of proximity to, on thunderstorm periods (Stearns). 1898.	Ažo.O.čo
p. 452	A29.6:26
Temperature and shore climate (Abbe). 1902. p. 314	A29.6:30
Seacoast telegraph lines, instructions to operators on (Bugbee). 1892.	A29.12:Sel 1
Same (Robinson). 1897	A29.12:Se1 <sup>2</sup> A11.5:9
Searchlight:	2211.0.0
Use of, in meteorology (Abbe). 1897. p. 206.	A29.6:25
Weather signals (Calvert). 1898. p. 58	A29.6:26
Seasonal forecasts: India and America (Abbe). 1898. p. 266	A 90 6 96
Long range, for Pacific Coast States (Ashley). 1901. p. 16	A29.6:29
Oregon, note on (Abbe). 1898. p. 253	A29.6:26
Seasons:	
Good and bad, periodicity of (Abbe). 1896. p. 290.	A29.6:24
Natural phenomena of, connection with agriculture (Russell).	A1.1:864
Warm and cold, normal, relative duration of, notes on (Abbe).	221111001
1901. p. 74	A29.6:29
1901. p. 74 same (Pennywitt). 1901. p. 55	A29.6:29
Seaweed, valuable agricultural resource of northern coast regions	A1 0.705
(Beal). 1899. p. 5	A29.6:22
Sebelien, J. Albuminoids in milk, estimation of. 1889. p. 169	
Sedowick T F:	
Chickens and their diseases in Hawaii. 1901	A10.9:1
Root rot of taro. 1902	A1Z,9:Z

	Index
	Classification no.
Seed and Plant Introduction: Section of, Agriculture Department, circular relative to (Cook).	10100
Work of Agriculture Department in, since 1897 (Smith). 1901.	A6.4:16
p. 145	A10.3:99
1901	A6.3:29
Establishment of (Burchard). 1893. pp. 793, 882	A10.6:4
Scandinavian, report on (Woll). 1899. p. 4. Seed Division, Agriculture Department.	A24.
Seed wheat for Northwest, correspondence on. 1868. p. 285 Seeds:	A27.9:6
Abstracts of reports of agricultural experiment stations on, 1889-1902	A 10 R·
Adulteration of. 1869. p. 146	A27.9:7
Agricultural— standards of the purity and vitality of (Hicks). 1896	A6.4:6
where grown and how handled (Pieters). 1901. p. 233	
experiments with. 1870. p. 476	A27.9:8
tests of. 1869. p. 242.	A1.1:869
same. 1870. p. 83	
Beardless brome grass (Pieters). 1900.	
Commercial saltbushes (Collins). 1901	
Contract for, award of. 1896	A1.4:1
circulars relative to, July 25, 1895	A1.2:Se3
records of, and cooperative experiments with grasses and forage	110.0.10
plants (Scribner). 1902.	A19.3:10
special agents for, annual report.  Effect of napthaline on (Taylor). 1883	A24.0; A10 9.X10
Experiments with (Baker). 1870. p. 25	A 10.2.N 10 A 97 0.8
same (Pidwell) = 24	A 27.9.0 A 97.0.9
same (Bidwell). p. 24 Farm and garden, experiments with. 1869. p. 292 Field—	A27.9:7
experiments with. p. 405	A1 1-888
production of. 1864. No. 6. p. 16	A 27 9.2
selection of, importance of. 1898. p. 8	A1.9:84
Flax culture for, in Europe and America (Dodge). 1898	A11.5:10
Free importation of. 1868. p. 62	A27.9:6
Germination of, as affected by certain chemical fertilizers (Hicks).	A6.3:24
Good, farmers' interest in (Pieters). 1900	A1.9:111
Growers of, bees of great value to (Benton). 1892. p. 254	
Investigation, object and methods of (Burchard). 1893. pp. 793,	
Large, heavy, superior value of (Hicks and Dabney). 1896.	A10.6:4
p. 305	A1.10:896
Maturing, localities best suited to (Henderson). p. 572	A1.1:878
Novelties and specialties in, distribution of	
Planting by birds (Barrows). p. 280	
same. p. 280. Production and saving (Pieters). 1896. p. 207	A0.1:890
Purchase and distribution, report of Assistant Secretary of Agri-	A1.10.090
culture on—	11.1.000
1898. p. 1	A1.1:898
1899. p. 3	A1.1.899
1900. p. 7. Pure, investigation (Hicks). 1894. p. 389.	A1.1:800 A1.10:804
Regula crass and choss (Hillman) 1009	A 10 24-T221
Rescue grass and chess (Hillman). 1902	A 27 Q · 19
Selection of—	43 <i>4</i> 1.0.14
importance of (Dupont), 1873, p. 553	A27.9:11
same. 1898. p. 7	A1.9:73
same. 1898. p. 7 report on (Coville). 1898.	A6.2:P69
work at Medicine Lodge, Kansas, résumé of (Carr). 1893. p. 28.	A7.3:40

Index	417 - mark a - Alan
Speaks Continued	Classification no.
Seeds—Continued Selling, growing, and testing of (Pieters). 1899. p. 549 Sowing of, brief instructions on. 1873 Testing—	A1.10:899 A1.2:Se3 <sup>8</sup>
additional notes on (Hicks and Key). 1897. p. 441	A1.10:8°5
1900. p. 55= rules and apparatus for. 1897 Treated with carbon bisulphid, vitality of (Hicks and Dabney).	
n. d	A6.4:11
(Evans). 1896	A28.3:10
p. 8.  See also Cotton seed — Grass seeds — Kentucky bluegrass seed —  Linseed — Oil-producing seeds — Red clover seed — Saccharine sorghums.	A28.5:6
Seeds and plants: Foreign—	
collected in Austria, Italy, and Egypt, by Barbour Lathrop and David G. Fairchild for Section of Seed and Plant Intro-	A.C. G.G
duction, Agriculture Department. 1900imported by Section of Seed and Plant Introduction, Agriculture Department—	A6.6;6
Nos. 1–1000, n. d.	
Nos. 1001–1900. 1899	1
Nos. 1901–2700. 1899	
Nos. 2701–3400. 1900	
Imported, inventory no. 9	A18.5.0
1901. p. 501	A29.6:29
1898. p. 562	A29.6:26
1899. p. 102 Seidell, Atherton. Alkali soils, chemical examination of. 1901.	A29.6:27
p. 65. See also, as joint author, Cameron, Frank K.	A26.3:18
Seismic changes, small, caused by building operations (Marvin). 1899. p. 582	A29.6:27
Seismic noises:	
North Carolina and Georgia (Hawkins). 1897. p. 393	A29.6:25 A29.6:26
Notes on (Abbe). 1898. pp. 216, 562.  Report on (Kain and others). 1898. p. 152.	A29.6:26
Seismograph: Marvin, report on (Marvin). 1895. p. 250	A29.6:23
Meteorological stations (Abbe). 1897. p. 259	
Milne, records by (Abbe). 1899. p. 214	A29.6:27 A29.6:28
Stations in United States, notes on (Abbe). 1899. p. 310	
Seismometers in meteorology, notes on (Abbe). 1901. p. 420	
Selby, A. D. Garden herbarium, making and its uses. 1900. p. 92. Selenium and its use for measurement of sunshine (Dorsey). 1899.	A10.3:76
p. 99	A29.6:27
Semaquir, notes on (Abbe). 1898. p. 65. Semiarid districts, wheat growing in, successful (Carleton). 1900.	A29.6:26
p. 529 Semiarid regions, emmer, a grain for (Carleton). 1901	A1.9:139
Semiarid West, new wheat industry for (Carleton). 1901	A28.4:18
Semolina and macaroni, manufacture of (Skinner). 1902	
1900. p. 395 Septendecim cicada. See Marlatt, C. L.	A29.6:28
Septicemia. See Chickens, apoplectiform septicemia.	
Serimeter, report of (Walker). 1889. p. 333.  Serrell automatic silk reel, report of (Walker). 1887. p. 52	A9.7:1
Serrell automatic silk reel, report of (Walker). 1887. p. 52	A9.3:14
Serum therapy in hog cholera (Peters). p. 196	140:1:4X

	Index
Some treatment for quipe plants and has abelone (De Submainita)	('lassification no.
Serum treatment for swine plague and hog cholera (De Schweinitz).	
p. 235 Same	A4.3:23
See also Antitoxic serum — Blood serum.	
Sevier Valley, Utah, soil survey in (Gardner and Jensen). p. 243	$A26.5:900^{-1}$
Sewage:	
Cities, note on (Brown). 1872. p. 379	A27.9:10
Disposal on farm and protection of drinking water (Smith). 1896.	A1.9:43
Liquid, treatment of, in Great Britain. 1870. p. 437.  Purification of. 1876. p. 57.	A27.9:14
Value of deposit of city of Washington (Antisell). 1869. p. 228.	A27.9:7
See also Wastes.	
Sewall, J. A. Garden City, Kans., grass and forage experiment sta-	
tion at. p. 342	A1.1:891
Same. p. 342.	A6.1:891
Seyboth, Robert. Lightning ball at sea, instance of. 1901. p. 249. Seychelles Islands, vanilla culture as practiced in (Galbraith). 1898.	A29.6:29
Shade in coffee culture (Cook). 1901	A6.3:21 A6.3:25
Shade-tree insects:	110.0.20
Four species of defoliators which affect trees of the capital. 1887.	A9.3:10
General work against, in cities and towns (Howard)	A9.5:15
Injurious, report on (Packard). 1887. p. 20	A9.3:13
same (Packard). 1890	A8.1:4
Ubservations on, in New York State (Felt). 1902. p. 63	A9.6:31
Problem in eastern United States (Howard). 1895. p. 361 Springfield and other New England cities (Howard). 1895.	
n 40	A9 6.2
p. 40	A1.9:99
Shade trees, diseases of (Galloway and Woods). 1896. p. 237	A1.10:896
See also Trees.	
Shadow, mountain, photograph of, note on (Abbe). 1894. p. 510.	A29.6:22
Shaffer, J. M.:	A 1 1.005
Barley and its uses. p. 355	A1.1:865 A1.1:864
Sheep in Iowa. p. 167. Shakespeare, Edward Orum. Swine, epidemic diseases among,	A1.1.004
supplemental report on. p. 137	A4.1:889-90
Shakespeare, Edwin Orum, and Burrill, T. J. Swine, epidemic dis-	
eases among, report of United States board of inquiry concern-	
ing. p. 129	A4.1:889-90
Shanghai, meat and milk inspection in (Blackwood). p. 205	A4.1:898
Sharp, David: Lamellicorns, Australian, new genus and two new species of:	
1890. p. 302	A9.7:2
1890. p. 302 Scymnus, two new species of. 1889. p. 364	A9.7:1
Sharpe, Benjamin F. Sounds, measuring and photographing, ad-	
vance in. 1899. p. 205	A29.6:27
Sharples, S. P. See, as collaborator, Wiley, Harvey Washington.	40.7.5
Sharpshooter, glassy-winged, report of. 1893. p. 150	A9.7:5
Shasta, Mount, Cal., biological survey of, results of (Merriam).	A5.5:16
Shattuck, C. H. Coal oil in West Virginia. p. 525.	
Shaw, C. P. Jefferson memorial road, Va. 1902. p. 27	
Shaw, R. E. Jefferson memorial road, Va. 1902. p. 9	A22.3:25
Shaw, Thomas:	i
Canadian field peas. 1895. p. 223 Rape plant, its history, culture, and uses. 1893	A1.10:895
Shaw, W. B., jr. Cattle in Indian Territory, report on. 1885.	A1.9:11
No 20 n 27	A 27 9.23
No. 20. p. 27. Sheaf wheat, feeding of, to steers (French). p. 486.	A4.1:898
Shear, Cornelius L.:	1
Agrostology Division, Agriculture Department, field work of,	
since organization, July 1, 1895. 1901.	A3.3:25
Bromus, North American species of, occurring north of Mexico,	A 9 9.00
revision of. 1900	A3.3:23
Rescue grass. 1900	
See also, as joint author, Rydberg, P. A.	1

ingex	Classification no.
Sheep:	
Animal parasites of (Curtice). 1890	A4.2:Sh41
"Big head" (disease) of, in Utah (Rowe). p. 230	A4.1:901
Blood poisoning in, in New Zealand (Gilruth). p. 233	A4.1:901
Catarrh in (Smead). 1880. p. 214	A27.9:15 A1.6:22
Cestodes of, adult, revision of (Stiles and Hassall). 1893	
Condition of—	A4.3:4
1866. p. 288	A27.9:4
1873. p. 143	A27.9:11 A27 Q:13
Diseases of—	A21.0.10
correspondence relating to. p. 486	A1.1:877
same, p. 542	A4.1:898
in Texas (Detmers). p. 68	A1.1:883
Dog nuisance among. 1867. p. 84	A27.9:5 A27.9:5
Exportation of—	1127.0.0
from Boston, prohibition of. 1902	
in vessels carrying hides from foreign countries, order con-	
cerning. 1900	A4.5:61
Farming— in Oregon. 1876. p. 414	A 27 Q-14
in the Pampas (Carrow). p. 223.	A1.1:864
in Turkey. 1868. p. 365	A27.9:6
Feeding of (Craig). 1897	A1.9:49
same, in Nebraska. p. 604  Feeding wild plants to (Nelson). p. 421	A4.1:901
Feeding wild plants to (Nelson). p. 421	A4.1:898
same, p. 10	A1.1.864
Flukes and tapeworms of—	11111101
bibliography (Hassall). 1898. p. 145	A4.3:19
compendium, arranged according to their hosts (Hassall).	44070
1898. p. 137report on, with special reference to inspection of meats (Stiles).	A4.3:19
1898. p. 11	A4.3:19
Grazing, and forest growth in Cascade Mountains of Oregon	121,0110
(Coville). 1898	A13.3:15
Great Britain (Carman). p. 145	A4.1:889-90
Hampshire Down, note on (Morrell). 1868. p. 462.	A27.9:868
Importation of. 1867. p. 203	A4.1:895-6
Imported into United States, regulations for inspection and quar-	
antine	
Dec. 28, 1899	A4.5:56
Jan. 27, 1900, modification	
Oct. 20, 1900, amendment	
Nov. 10, 1900, amendment	A4.5:79
Imports of, by Great Britain, 1898–1900. p. 606	A4.1:901
Industry in. See Sheep husbandry.	14 7.001 9
Industry of Colorado (Kennedy). p. 367	A4.1:891-2 A4.1:897
Killed by dogs. 1858–63. p. 183	A27.9:4
Killed by dogs, 1858-63. p. 183.  Larkspur poisoning of (Wilcox). p. 473.	A4.1:898
Long-wool (Dodge). p. 479	A1.1:865
Losses of—	A 07 0.11
1873. p. 150	A27.9:11 A97 0:19
Mutton—	A21.5.15
	A1.9:119
establishing a flock of (Beal). 1900. p. 23	A1.1:866
Prairies (Grinnell). p. 300	A1.1:862
Quarantine of, in New England States. 1902	A4.0:99
Raising, for mutton (Curtiss). 1899	A1.0.50
Raising and feeding, importance of (Taylor). p. 249	A1.1:864

	LINGOX Classification no.
Sheep—Continued	Classification no.
Roundworms in, treatment of (Stiles)—	
1901 1902. p. 7 Sales of, in England. 1868. p. 408.	A4.4:35
1902. p. 7	A4.3:35
Calandiam Amandamama and dimanuan at im Timidad Chaban (1) and alli)	A27.9:6
b. 229	A1.1:863
p. 229  Stall-feeding (Harris). p. 317  Teneworm disease of of western plains (Curtice). p. 167	A1.1:862
Tabe with discase of or western biains (Outlice). D. 10/	AT. 1.001~0
Verminous diseases of, in Texas (Stiles). p. 356	A4.1:900
same, further investigations of (Stiles). p. 223	A4.1:901
"Golden fleece" — Infantado sheep — Kentucky sheep — Live	
stock—Merinos—Mutton—"Ontario," merino ram—Ovine	
caseous lymph-adenitis — Paular sheep — Quarantine — Somali	
sheep—Spanish merinos—Texel or Mouton Flandrin sheep. Sheep and wool:	
	A4.1:898
Review of progress of American sheep husbandry (Dodge). 1900	A1.8:66
Statistical report on, of the world (Dodge). p. 207	A1.1:875
Sheep breeders' associations, list of, with officers:	11 10 000
1898. p. 614 1899. p. 694	A1.10:898
1900. p. 649	A1.10:900
1901. p. 625	
Sheep husbandry:	
Arizona. 1891. p. 20	A27.9:29
Colorado in 1897 (McNeely). p. 377. Condition and prospects of, in United States. p. 242.	A4.1:898 A1 1:889
Condition of sheep industry west of Mississippi River (Heath).	A1.1.002
p. 247	<b>A4.1</b> :889–90
p. 247 Connection of tobacco culture with. 1878. p. 125	A1.2:Sh3
Delaware (Webb). 1883. p. 172	A1.7:2
Few facts in. p. 378	A1.1:809
1875. p. 523	A27.9:13
1878. (Peters). p. 120	A1.2:Sh3
· · · · · · · · · · · · · · · · · · ·	A4.2:Sh4 <sup>2</sup>
Contents: 1. In States east of Mississippi River (Carman). p. 11.	•
2. West of Mississippi River (Heath and Minto). p. 701.	
Iowa (Shaffer). p. 167	A1.1:864
Nebraska (McCann). p. 193 North Carolina (Young). 1878. p. 115	A1.1:864
Oregon. 1876. p. 479.	A27.9:14
Pacific Northwest (Withcombe). 1900. p. 5	A1.9:117
South—	
paper on (Ellzey). 1883. p. 173	A1.7:2
report on (Hayes). 1879. p. 63	A1.2:Sh3 A1.2:Sh3
Tennessee. 1878	
Texas (Jenks). 1877. p. 122	A1.2:Sh3
United States. 1879	A1.2:Sh3
West (Boardman). p. 286	A1.1:862
How stamped out in New Zealand. p. 505	A4.1:900
How stamped out in New Zealand. p. 505 Investigations relative to. p. 155	A4.1:897
Nature and treatment (Salmon and Stiles). p. 98	A4.1.897
same (Salmon and Stiles). 1898	A4.3:21
Texas. 1867. p. 204 Work against (Salmon). p. 69	A41.9:0 A4 1.900
same (Salmon and Stiles). 1901. p. 583.	A4.1:901
See also Cattle orders — Lime-and-sulphur dips.	
Sheep-scab mite and low temperature (Holcombe). p. 605	A4.1:901
Sheet waters. See Underflow and sheet waters.  Sheffield, O. H. Road system of Georgia, improvement of. 1894	<b>4</b> 99 2.2
~ concid, O. 11. Ivoad system of Georgia, improvement of. 1894	A44.0.0

Index	Classification no.
Sheffield, England, cost of hauling farm products over wagon roads	
at (Bedle). p. 3. Sheldon, C. S. See, as collector, Holzinger, J. M. Shell roads. See Roads.	
Shells, land and fresh-water, collected in California and Nevada by Death Valley expedition, with few additional species obtained by C. Hart Merriam and assistants in parts of southwestern	AE E.~
United States (Stearns). 1893. p. 269 Shelton Tobacco Curing Co., Asheville, N. C. Planter's guide for cultivating and curing tobacco, with information and instruc-	A5.5:7
tion concerning the Shelton tobacco hanger. 1876	A7.3:24
Tea culture, the experiment in South Carolina. 1899.  Tea raising at Pinehurst experimental tea garden, near Summerville, South Carolina, special report on. p. 627.	
See also Saunders, William. Sherman, H. C.: Metabolism of nitrogen, sulphur, and phosphorus in human	
organism, experiments on. 1902.  Nitric nitrogen, determination of. 1895. p. 112.  See also, as joint author, Atwater, Wilbur Olin.  Sherwood, E. R. Remarks of, at 2d convention of Weather Bureau	A10.3:121 A7.3:47
officials, Milwaukee, Wis., 1901. p. 227. Shimonoseki, treaty of, between China and Japan of April 17, 1895,	
and our possibilities of trade with those countries	
p. 67 Ship timber in United States (Bates). p. 472 Ships: Barograph on, note on—	A1.1:866
1898 (Abbe). p. 567. 1899 (Abbe). p. 60. 1900 (Page). p. 590. Rainfall measurements on, notes on (Abbe). 1898. p. 313	A29.6:27 A29.6:27
Shiver, Frank Scott: Fertilizers containing organic materials, total phosphoric acid in, determination of. 1891. p. 109  Nitric nitrogen, determination of, by zinc-iron method. 1894.	A7.3:31
Shoeing of horses (Dickson). p. 529. Shoes. See Boots and shoes.	A7.3:43 A4.2:H78
Shore climate and sea temperature (Abbe). 1902. p. 314	
Same, with additional notes by Filibert Roth. 1897. p. 93 Shorts. See Wheat shorts.	A13.3:13 <sup>2</sup>
Shower, mud, note on (Kimball). 1902. p. 269	A29.6:30
1895. p. 5	A5.5:10
Long-tailed, of eastern United States (Miller). 1895. p. 35 Shrikes, food of (Judd). 1898. p. 15 Shriver, Howard, short biography of (Abbe). 1901. p. 67 Shrubs:	A5.3:9
Effect of punctures of hemipterous insects on, 1886 (Webster).	A9.3:13
p. 54. San Diego County, Cal. 1888. p. 202 Trees and, distribution of, in deserts and desert ranges of southern California, southern Nevada, northwestern Arizona, and	
southwestern Utah, notes on (Merriam). 1893. p. 285 Siberia:	ĺ
Dairy notes (Smith). p. 530	A29.3:11 <sup>1</sup>
by Peter Fireman. pp. 704, 807	

	Index
•	Classification no.
Sicily, sumac in, culture of (McMurtrie). 1880	A1.6:26
Sieg, R. Sugar cane, diffusion process as applied in Louisiana.	
p. 40 Same, 1884, p. 18	A1.1:884
Same, 1884, p. 18	A7.3:2
Sierra Nevada Mountains, California, pika from, description of new	1 F F O
species of (Merriam). 1889. p. 11	A5.5:2
Signal Service Bureau, War Department, sketch of work of, for	41 0.00
agriculturist (Birkheimer). 1882. p. 110	A1.0:22
Signal Service, United States, meteorological work of, 1870 to 1891.	711.1.0
1895. p. 232	A29.3:11 <sup>2</sup>
1895. p. 232 Signal Service, expenditures of Weather Bureau and, statements of	A29.2:Si2
Signals. See Weather Bureau signals.	
Signata. See Hyperaspis signata.	
Signs and weather, note on (Kimball). 1901. p. 508	A29.6:29
Silage:	110101
Alfalfa, report on (Beal). 1901. p. 25	A1.9:124
Cowpeas and corn for (Gettys). 1900.	
For horses and hogs. 1898. p. 20. Losses in preparation of. 1901. p. 31.	
See also Ensilage — Silos and silage.	A1.8.100
Silage mixture (Robertson). 1897. p. 7.	A1.9:56
Silesia:	
Hessian fly in, in 1869 (Cohn). 1883. App., p. 39	A8.1;3
Linen industry in. 1873. p. 433	A27.9:11
Wool of (Erdman). p. 521	A4.1:899
Silicates, action of oxalic acid on (Kastle and others). 1894. p. 53.	A7.3:43
Silk culture:	40 5 4
Abstract of note on (Wallace). 1891. p. 64.	A9.7:4
Agriculture Department—	A 1 1.005
1885. p. 214 1886. p. 546	
1887 (Walker). p. 115	
California, letter on (Prevost). 1867. p. 285	A27.9:5
Condition of (Bollman). p. 304.	
Europe. 1872. p. 52	A27.9:13
Japan, 1885 (Tamari). p. 187	A1.7:9
Law for encouragement of. 1866. p. 287	A27.9:6
Progress in. p. 235	A1.1:870
Promotion of, report on. p. 67	
same, p. 67	A9.1:882
same, p. 111	
Report on. p. 282	A1 1.868
See also Raw silk.	11111000
Silk manufacture in United States. 1874. p. 50.	A27.9:14
Silk reel, automatic, Serrell, report on (Walker). 1887. p. 52	A9.3:14
Silk Section, Agriculture Department	A25.
Silkworms:	111000
Ailanthus, of China, additional observations (Morris). p. 390	A1.1:862
Brief manual of instructions for production of silk. p. 215	A1.1:878 A9.1:879
same, p. 10same (Riley)	
Eggs of, circular relating to. n. d	A9.4:1
Enemy of, note on. 1886. p. 37	A9.3:12
Grasserie of (Walker). 1891. p. 445	A9.7:3
Grasserie of (Walker). 1891. p. 445	A25.3:1
Japanese oak-feeding, cultivation of (Webster). 1889. p. 273	A9.7:1
Japanese, parasite of, Ugimvia sericarlæ rond. 1891. p. 113	A9.7:4
Notes on. p. 101 same, p. 101	A1.1:883
same, p, 101	A9.1:883
Osage orange as feed for. 1870. p. 430	A27.9:8
Raising, in open air. 18/3. p. 388	A21.8:11
See also Japanese oak-feeding silkworm — Japanese silkworm — Mulberry silkworm.	
Silo, stave, value of, to dairy farmers (Beal). 1898. p. 23	A1.9:103
The second of th	

	Classification no.
Silos and ensilage, record of practical tests in several States and	17.0.40
Canada. 1882	A1.6:48
Silos and silage (Plumb). 1895	A1.9:32
Silt measurements, progress report on, 1900 (Nagle). p. 293	A10.3:104
Same, 2d progress report, 1901 (Nagle). p. 365.	A10.3:119
Silverfish, circular on (Marlatt). 1902.	A9.5:49
Silvester, R. W.:  Address of, before American Association of Farmers' Institute	
Workers, at seventh annual meeting. 1902. p. 45	A10.3:120
Education, theory of higher, some recent changes in. 1899. p.	
94	A10.3:65
Simmons, A. H. Agriculture in Washington Territory, statistics of. 1869. p. 370	A27.9:7
Simmons, F. M., address of, before Good Roads Convention at	21271011
Winston-Salem, N. C. 1902. p. 12.	A22.3:23
Simpson, C. B. Codling moth, investigation of, in Idaho. 1900.	A O . 6-90
p. 51 Same, in Northwest, during 1901	A9.6:30 A9.6:35
Simpson, J. H. Florida plants. p. 389.	A1.1:889
Same, p. 389	<b>A6</b> .1:889
Simpson, John M. Osier culture. 1898	A13.3:19
Sims, Alfred F.: Climate, permanence of. 1901. p. 121	A29.6:29
Meteorological observatories, suburban. 1902. p. 215	A29.3:31
Press, commercial bodies, and scientific organizations, relations of	
weather officials with, how promoted. 1899. p. 74	A29.3:24
Simulium. See Buffalo-gnats.	A29.0:20
Sinclair, Angus. Transportation, development of, in United States.	
1899. p. 643	A1.10:899
Siris tree. See Lebbek tree. Sirrine, F. A.:	
	A10.3:99
Asparagus, power sprayer for. 1901. p. 177	A10.3:99
See, as joint author, Osborn, Herbert. Sirups, making, and sugar and imphee and sorghum culture, report	
on (Smith). p. 129	A1.1:862
See also Cane juices and sirups — Maple sirup — Molasses — Sor-	
ghum sirup—Table sirups.	
Sisal hemp, or jenequen:  Culture in United States [Florida], with statements relating to	
industry in Yucatan and Bahama Islands, and brief consid-	
erations upon questions of machinery for extracting fiber	417 5 0
(Dodge). 1891 False, in Florida (Dodge). 1892. p. 28	A11.5:3
same, description of (Baker). 1892. p. 32	A11.5:5
Industry in Bahama Islands (McLain). 1891. p. 52	
Report on. p. 257	
Siva, C. Samba. Agriculture in India, account of. 1874. p. 389	A27.9:12
Six-spotted mite of orange (Riley). 1890. p. 225	A9.7:2
Skies. See Sky.	
Skim milk: As food for young chickens (Anderson), p. 477	A4.1:899
As food for young chickens (Anderson). p. 477 Bread making and. 1900. p. 16 For young chickens. 1898. p. 20	A1.9:114
For young chickens. 1898. p. 20	A1.9:84
What is most profitable way to dispose of? (Hills). 1896. p. 95. Skin disease among:	A10.3:41
Cattle (Trumbower). p. 325	A4.2:C29*
Cattle (Trumbower). p. 325 Horses (Law). p. 419	A4.2:H78
Skinner, Charles R. Arbor Day, relation of, to agriculture and hor-	
skinner, Geo. D. See, for report as foreman, 1894, Printing Office,	A1.8:56
Agriculture Department.	
Skinner, Robert P. Semolina and macaroni, manufacture of. 1902.	A19.3:20

	Classification no.
Skins, museum, preparation of (Merriam). 1889	A5.4:11
See also Hides and skins. Skipper. See Cheese or meat skipper.	
Skunks:	
Little striped, of genus Spilogale, contribution toward revision of	A E E.A
(Merriam). 1890. p. 1	A5.5:4 A5.5:20
Skv:	_
Blue color of, notes on (Abbe). 1899. p. 113	
(Abbe). 1900. pp. 292, 556	A29.6:28
(Ashcraft). 1900. p. 489 (Pague). 1900. p. 429	
Polarization, study of, with reference to weather conditions	A20.0.2G
(Schultz). 1902. p. 28. Prairie, note on (Abbe). 1898. p. 217.	A29.3:31
Prairie, note on (Abbe). 1898. p. 217	A29.6:26
Probable state of, along path of total eclipse of sun, May 28, 1900 (Bigelow). p. 404	A29.6:26
Sky light:	A28.0.20
Blue, color and polarization of, with bibliography (Dorsey).	
1900. p. 382	A29.6:28
Character of (Abbe). 1897. p. 207.	A29.6:25
Skyland, Page County, Va., local thunder storms at, observations for 1900 (Cragin and Cragin). pp. 328, 389	1 20 R.28
Slade, Elisha. Onion, history, culture, and preservation of. p. 235.	A1.1:865
Slage. See Basic phosphatic slage.	
Slaughterhouse, country, as factor in spread of disease (Stiles).	4 7 7 0 0 0 0
1896. p. 155	A1.10:896
Sleet:	· I
Notes on (Abbe). 1901. p. 175	A29.6:29
	A29.6:28
Slingerland, Mark Vernon:	AQ 7.5
Bean weevil, report on. 1892. p. 86	A9.7:5
Entomology, some suggestions and notes on, presented to Ento-	
mology Section of Association of American Agricultural Col-	
leges and Experiment Stations, at fifteenth annual meeting,	A 10 9.115
1901. p. 120 Pear-leaf blister mite, report on. 1892. p. 104	A10.3:115 A9.7:5
Pear-tree psylla, report on. 1892. p. 100	A9.7:5
Slingerland, William H. "Cream-pot" stock, history of. p. 291	A1.1:866
Slip-records for entomologists, note on (Cockerell). 1893. p. 198	
Slop for pigs. 1901. p. 26. Small-pox, animal, note on. 1866. p. 56.	A1.9:133 A27.9:4
Smart, Charles. Meteorology in United States, connection of Army	1121.0.1
Medical Dept. with development of. 1895. p. 207	A29.3:11 *
Smart, James H., address of, as president of Association of Ameri-	
can Agricultural Colleges and Experiment Stations, at fourth annual convention. 1890. p. 37	A10.5:3
Smead, C. D. Catarrh in sheep. 1880. p. 214	
Smith, Abraham E. Deerskins, exports of, from British Columbia.	
p. 519	A4.1:900
Smith, Augustine J. Agricultural education, necessity of. 1883. p. 22	A1.7:2
Same	A1.8:25
Smith, A. W. See, as collaborator and joint author, Atwater,	1
Wilbur Olin.	'
Smith, C. B.: Agricultural conditions, general, in United States, as related to	
work of agricultural experiment stations. 1900. p. 19	<b>A</b> 10.3:80
Agricultural education in France. 1900. p. 115	A1.10:900
Agricultural education in France. 1900. p. 115  Blueberries, improvement of. 1900. p. 18	A1.9:119
Fertilizers, nitrogenous, for market-garden crops, 1901, p. 12	A1.9:12 <del>4</del>
German common school with a garden. 1899	A1.9:122
Muskmelons, transplanting, experiments in. 1900. p. 20	A1.9:119

	Classification no
Smith, C. B.—Continued	
Pecan culture. 1901. p. 16.	A1.9:124
Potatoes, extra-early, methods of securing. 1900. p. 6	
Rhubarb, forcing, results of. 1899. p. 13	A1.9:10/
Smith, C. B., and Beal, Walter Henry. Persimmons, desirable	
qualities as a fruit. 1899. p. 9.	A1.9:107
Smith, C. B., and Langworthy, Charles Ford:	
Chestnuts, culture of. 1900. p. 9	A1.9:114
Olives, culture and uses of. 1900. p. 11	A1.9:122
Smith, C. D.: Annual address of president at meeting of American Association	
of Farmers' Institute Workers, held at Buffalo, N. Y., Sept. 18	
and 19, 1901, 1902, p. 13	A10.3:110
Potatoes, feeding value of. p. 511	A4.1:898
Smith, D. C. Wharton, address of, before national road conference, July, 1894. p. 43	1.00.0.10
ence, July, 1894. p. 43 Smith, E. J. Madder, culture of, in Smyrna. 1870. p. 284	A22.3:10 A27.9:8
Smith, Edward C. Vermont, road improvement in, extract from	A.21.0.0
governor's message. p. 10	A22.4:33
Smith, Erwin F.:	
Bacterial disease of tomato, eggplant, and Irish potato. 1896	A28.3:12
Black rot of cabbage. 1898. Ergot, prevalence of, in 1889. 1889. p. 203.	A1.9:68
Fertilizers, experiments with, for prevention and cure of peach	A28.0:0
yellows, 1889–92	A28.3:4
Field notes, 1892, report on. 1891. p. 373	A28.5:7
Fruits, field notes, 1890. 1891. p. 107	A28.5:6
Grape mildews and grape rot in U.S., synopsis of replies to cir-	1000
cular relative to. 1886. p. 45	A6.3:2
laws of U. S. and Canada. 1896.	A28.3:11
Peach blight, note on. 1891. p. 36	
Peach growing for market. 1895	A1.9:33
Peach rosette, report on. 1891. p. 143	A28.5:6
same, additional notes. 1891. p. 226	A28.5:7 A28.5:5
Peach yellows—	A20.0.0
preliminary report. 1888	A6.3:9
what to do for. 1891. p. 15	A28.5:6
Peach yellows and peach rosette. 1894	A1.9:17
same, additional evidence on communicability of. 1891  Peaches, field notes on. 1891. p. 88	A28.3:1 A28.5:7
Pseudomonas hyacinthi, Ps. campestris, Ps. phaseola, and Ps.	1120.0.1
stewarti, four one-flagellate yellow bacteria parasitic on plants,	ļ L
cultural characters of. 1901	A28.3:28
Spotting of peaches, report on. 1889. p. 32	A28.5:5 A28.3:26
Wakker's hyacinth germ. 1901	
Smith, Eugene A. Cotton belt, report on. 1885. p. 59	A8.1:4
Smith, Halsted, address of, before national road conference, July,	
1894. p. 39	A22.3:10
Smith, Henry M. Yaupon, chemical notes on. 1872. p. 20	A27.9:10
Smith, Herman W. Weather Bureau Library, monthly additions to, AprNov. 1897	A29.6:25
Smith, J. H. Imphee and sorghum culture and sugar and sirup mak-	1120.0.20
	A1.1:862
Smith, J. W. Boston weather forecast district, report of, monthly.	100 0 00
July, OctDec., 1901 Same, JanOct., 1902	A29.6:29
Smith, J. W. Forest-tree culture in Dakota. 1891. p. 50	A29.6:30 A13.3:5
Smith, J. Warren:	110.0.0
Derecho of May 16, 1899, in Ohio. p. 196	A29.6:27
Meteorology, popular lectures on, including lectures to farmers'	
institutes, social gatherings, societies, etc.; are such lectures	
valuable in proportion to time given? what should be the general character of such lectures? 1902. p. 92	A 90 2.21
general character of such fectures: 1302. p. 32	1200.U.U.

	I	n	d	e	7
--	---	---	---	---	---

	INGEX Classification no.
Swith I Warman Cantinual	Classincation no.
Smith, J. Warren—Continued Phenological data. 1902. p. 196	A 29 3 31
Washouts, floods, cold waves, heavy snowfalls, warnings of, for	A20.0.01
benefit of transportation companies. 1899. p. 37	A29.3:24
Weather, effect of, on birds. 1895. p. 212.	A29.6:23
Weather Bureau instrument shelter. 1893. p. 25	A29.3:7
Weather Bureau observers, stations of instruction for newly ap-	
pointed; should not certain important Weather. Bureau sta-	
tions be designated? 1899. p. 105.	A29.3:24
Smith, Jared Gage:	. 41 ().91
Alfalfa or lucern	
Cowpeas, report on same, p. 287	1 10.896
same	A3.4:5
Florida beggar weed. 1899.	A3.4:13
Fodder and forage plants, exclusive of grasses	$^{1}$ A3.3:2
Forage conditions of prairie regions. 1895. p. 309	A1.10:895
Forage plants for cultivation on alkali soils. 1898. p. 535	A1.10:898
Gram, chick-pea, or Idaho pea. 1898	A3.4:7
Grass gardens, experimental. 1895	A3.4:1
Grazing problems in Southwest and how to meet them. 1898 Hawaii Agricultural Experiment Station, annual report for 1901.	1 79.9:10
n 361	: - 4.10 12-901
p. 361 Leguminous forage crops. 1897. p. 487.	A1.10:897
Meadows and pastures, formation and cultivation in middle East-	
Meadows and pastures, formation and cultivation in middle Eastern States	A1.9:66
Plant introduction, commercial. 1900. p. 131	A1.10:900
Range improvements, experiments in. 1898	A3.4:8
Salt bushes. 1896	A3.4:3
Seed and plant introduction, work of Agriculture Department in,	1 110 0.00
since 1897. 1901. p. 145 Sitanion, genus, synopsis of. 1899	A10.3:99
Velvet bean. 1899	A0.0.10 A2 A.14
Vetches, cultivated.	A3.4:6
See also, as joint author, Scribner, Frank Lamson	
Smith, John Bernhard:	
Aphididæ, some questions relating to. 1891. p. 226	A9.7:3
Blackberry borers and gall makers, notes on. 1891. p. 27	A9.7:4
Carbon bisulphide as an insecticide. 1894. p. 108	A9.7:7
Clover-leaf beetle, invasion by. 1891. p. 231	A9.7:3
Cranberry and hop insects, report upon. 1884. p. 9	A8.514 A1 1.885
Entomological notes and problems. 1895. p. 6	A9.6:2
Fertilizers as insecticides. 1891. p. 217	LA9.7:3
Insecticides, farm practice, and fertilizers as. 1893. p. 93	A9.7:6
Insects affecting the hop and cranberry. p. 393	A1.1:884
Lachnosterna fusca, notes on. 1888. p. 180	+ A9.7:1
Maxillary tentacles of pronuba. 1893. p. 161.	A9.7:5
New Jersey insects, notes on—	. 40.7.4
1891. p. 43	
1893. p. 187	
1894. p. 185	
Noctuide, from Death Valley, descriptions of, 1893, p. 328	A9.7:5
Nursery inspection. 1901. p. 165. Oncocnemis, new species of. 1888. p. 18.	A10.3:99
Oncocnemis, new species of. 1888. p. 18.	A9.7:1
Parasites and predaceous insects, economic value of. 1893. p. 142.	A9.7:6
Petroleum, crude— notes on, and its effects upon plants and insects. 1901. p. 176.	1 A 1 O O - O O
notes on, and its enects upon plants and insects. 1901. p. 176.	- A10.3:99 - ▲10 2.11¤
year's experience in. 1902. p. 118. Plum curculio, notes on. 1891. p. 219	10.5:110 1 A9 7:3
Rose bugs, experience with—	110.7.0
1890. p. 113	A9.7:3
1891. p. 220 San Jose scale in New Jersey. 1894. p. 163	A9.7:3
San Jose scale in New Jersey. 1894. p. 163	A9.7:7
San Jose or pernicious scale, distribution of, in New Jersey. 1898.	10015
p. 32	A9.0:17

Index	Classification no.
Snow and ice bullating	
Snow and ice bulletins	A 20 3.21
Snow crystals:	1120.0.63
Micro-photographs of, notes on (Abbe). 1900. p. 541	A29.6:28
Notes on (Abbe). 1901. p. 118	A29.6:29
Notes on (Abbe). 1901. p. 118	A29.6:29
Snow dust, report on (Abbe). 1895. p. 15	A29.6:23
Snow rollers, note on—	100 4 00
1895 (Abbe). p. 465	
1898 (Abbe). p. 20	A29.0:20 A 90 R:97
Snow slides, formation and prevention (Fernow). 1888. p. 236	A13.3:2
Snow temperatures, report on (Calvert and Phillips). 1899. p. 55.	
Snowfall:	
Annual, report on (Abbe). 1896. p. 491	A29.6:23
Colorado (Abbe). `1897. ´ p. 210	A29.6:25
First, dates of, 1886–87, 1893–94 (Abbe). p. 292	A29.6:22
Forests, and, note on (Abbe). 1899. p. 18	A29.6:27
Heavy, warnings of, for benefit of transportation companies (Outram). 1899. p. 38	A 90 3.91
same (Smith). 1899. p. 37.	A 29 3.24
Normal annual (Abbe). 1894. p. 373.	A29.6:22
same (Henry). 1898. p. 108	A29.6:26
North Dakota, 1895 (Abbe). p. 463	A29.6:23
Rocky Mountains, notes on (Abbe). 1900. p. 18	A29.6:28
Total, for winter 1895–96 (Abbe). p. 167	A29.6:24
Snowfall and its equivalent in water, notes on (Abbe). 1901. p. 219.	A29.6:29
Snowfall bulletins, special (Abbe). 1898. p. 21 Snowstorms, memorable, in South Dakota (Glenn). 1897. p. 14	A29.0:20 A 90 G 95
Snyder, Harry:	A25.0.20
Albuminoid nitrogen, determination of, error in present official	
method for; and effect of presence of metals precipitable by	
potassium sulphide in determination of nitrogen by Kjeldahl's	
method. 1891. p. 39  Bread and bread making at University of Minnesota, studies on,	A7.3:31
Bread and bread making at University of Minnesota, studies on,	A 1 0 0 0°
in 1897 and 1898. p. 7	A10.3:07 A10.2:101
Fodders, fats in, determination of, by direct weighing and by loss	A10.3.101
of weight of the substance. 1891. p. 37	A7.3:31
of weight of the substance. 1891. p. 37	A1.10:895
Nutrients, loss of, in boiling potatoes, carrots, and cabbage. 1897.	
p. 7	A10.3:43
Potatoes and eggs, digestibility of. 1897. p. 20	A10.3:43
Soil investigations, problems in. 1898. p. 58	
Soils, total insoluble matter, phosphoric acid, lime, and potash	A 7 9:47
in, determination of. 1895. p. 48.  Snyder, S. J. H. Locusts or grasshoppers in Kansas. 1868. p. 456.	A27.9:6
Soaps, insecticide, report on (Marlatt). 1896. p. 38.	A9.6:6
Societies. See Names of societies.	
Soda ash for wireworms. 1869. p. 300	$\mathbf{A27.9:}7$
Sodium carbonate, or black alkali:	
Formation of by plants (Cameron). 1902. p. 61	A1.8:71
Resistance to, by certain plants (Cameron). 1902. p. 71	A1.8:71
Sodium chloride, aqueous solutions of, solubility of gypsum in (Cameron). 1901. p. 25	426 3·18
See also Potash.	.120,0.10
Soil analysis:	
Discussion of, summary (Hilgard). p. 170  Late progress in (Hilgard). 1896. p. 88.	A1.1:885
Late progress in (Hilgard). 1896. p. 88.	A10.3:30
Mechanical, rapid method of, including use of centrifugal force	A P. O. E.O.
(Hopkins). 1898. p. 67 Method for taking samples (Hopkins). 1902. p. 152	A1.3:00 A7 2.47
Notes on (McMurtrie) 1871 n 48	A1.3:01 A97 Q-19
Notes on (McMurtrie). 1874. p. 46  Objects and interpretation of (Hilgard). 1886. p. 29	A7.3:10
Objects and methods of (Hilgard), 1897, n. 84	I A7.3:51
Physical and chemical methods of (Hilgard). 1893. p. 60	A7.3:38

		~~
Classificatio	n	no.

Soil analysis—Continued	
Principles and methods of (Richards). 1886	A7.3:10
Report on (Kedzie). 1891. p. 116.	A7.3:31
Separation of alkalies in, by official method (Hopkins). 1902. p. 43.	A7.3:67
Soil collection of Division of Soils, Agriculture Department, first	100010
4,000 samples in (Whitney). 1899. Soil map of Connecticut Valley, description of. 1900	A26.3:16
Soil physics, relation of tillage to (Sanborn). 1891. p. 97	A26.4:7
Soil solutions:	A10.0.3
Capillary studies and filtration of clay from. 1902	A26.3:19
Filtration of suspended clay from (Briggs). 1902. p. 31	A26.3:19
Potash in, note on direct determination of (Peter). 1894. p. 65.	
Their nature and functions, and classification of alkali lands	
(Cameron). 1901	A26.3:17
Soil survey:	
Abstracts of reports of agricultural experiment stations on, 1889-	A 10 C.
Alamance County, North Carolina (Coffey and Hearn). p. 297.	A10.6: A26.5:901 <sup>1</sup>
Allegan County, Michigan (Fippin and Rice). p. 93	A26.5:901 <sup>1</sup>
Bedford area, Virginia (Mooney and others). p. 239	A26.5:901 <sup>1</sup>
Boise area, Idaho (Jensen and Olshausen). p. 421	A26.5:901 <sup>1</sup>
Cache la Poudre Valley, Colorado, 1900 (Means). p. 121	A1.8:64
Calvert County, Maryland (Bonsteel and Burke). p. 147	$A26.5:900^{1}$
Cary area, North Carolina (Coffey and Hearn). p. 311	A26.5:901 <sup>1</sup>
Cecil County, Maryland (Dorsey and Bonsteel). p. 103	
Charles Lake area, Louisiana (Heileman and Mesmer). p. 621	
Cobb County, Georgia (Burke and Marean). p. 317	A26.5:901 · A1.8:64
Connecticut Valley (Dorsey and Bonsteel). 1900. p. 125 Covington area, Georgia (Marean). p. 329	
Fresno, California (Means and Holmes). p. 333.	A26.5:901
Hanford area, California (Lapham and Heileman). p. 447	A26.5:901 <sup>1</sup>
	A26.5:901 <sup>1</sup>
Imperial, California (Means and Holmes). p. 587	A26.5:901 <sup>1</sup>
same (Means and Holmes). 1902	A26.4:9
Kent County, Maryland (Bonsteel). p. 173	
Lancaster, Pennsylvania (Dorsey). p. 61	
Lebanon area, Pennsylvania (Smith and Bennett). p. 149	
Montgomery County, One (Dorsey and Coney). p. 60	A 26.5:901 <sup>1</sup>
Pecos Valley, New Mexico (Means and Gardner). 1900. p. 36.	A1.8:64
Prince Edward area, Virginia (Mooney and Caine). p. 259	A26.5:901 <sup>1</sup>
Prince George County, Maryland (Bonsteel and party). p. 173	
Purpose of (Whitney). 1901. p. 117.	A1.10:901
Raleigh to Newbern, North Carolina (Smith). p. 187	A26.5:900 <sup>1</sup>
Russian (Sibirtzev). pp. 704, 807	A 26 5:9001
Salem area, New Jersey (Bonsteel and Taylor). p. 125	A26.5:901 <sup>1</sup>
Salinas Valley, lower, California (Lapham and Heileman). p. 481.	A26.5:901 <sup>1</sup>
Salt Lake Valley, Utah (Gardner and Stewart). 1900. p. 77	
Salt River Valley, Arizona (Means). p. 287	$A26.5:900^{1}$
San Gabriel, California (Holmes and Mesmer). p. 559	
Sanpete, Cache, and Utah counties, Utah (Means). 1900. p. 115.	
Santa Ana, California (Holmes). p. 385	A20.0:900 *
Statesville area North Carolina (Dorsey and party) n 273	A 26.5.901 1
Statesville area, North Carolina (Dorsey and party). p. 273 United States (Whitney). 1899. p. 335	A1:10.899
Ventura area, California (Holmes and Mesmer). p. 521	A26.5:901 <sup>1</sup>
Weber County, Utah (Gardner and Jensen). p. 207	$A26.5:900^{1}$
Wortfield area New York (Rurks and Marean) n 75	A 26 5 901 1
Willis area, Texas (Martin). p. 607 Yakima area, Washington (Jensen and Olshausen). p. 389	A26.5:901 1
Yakima area, Washington (Jensen and Olshausen). p. 389	A26.5:901 1
Yazoo area. Mississippi (Bonsteel and barty). D. 309	AZ6.5:9U1 *
Soil thermometers, maximum and minimum, combined, instruc- tions for use of	A29.11:G
Soils	
Acid, effect of lime on different crops on. 1901. p. 6	A1.9:133

Index	Classification no.
Soils—Continued	CTRAINGREGAL EO.
Acid digestion of—	
effects of presence of few drops of nitric acid in (Thompson).	4 7 0 47
1895. p. 49 vessels for (Kedzie). 1893. p. 82	A7.3:47 A7.3:38
Acidity on upland or naturally well drained, report on necessity	A1.3.30
of tests for (Wheeler), 1895, p. 45	A7.3:47
Action of oxalic acid upon (Kastle and others). 1894. p. 53	A7.3:43
Arable—	
moisture content of, electrical method of determining (Whitney and others). 1897	A26.3:6
ney and others). 1897nitrification of (Dehérain). 1896. pp. 353, 491	A10.6:6
Artificial plant food, requirements of (Kilgore). 1902. p. 73	A 10.3:115
Black, of Russia (Grandeau). 1872. p. 501	A27.9:10
and Gilbort) 1888 n 25	A7.3:10
Cotton cultivation and (Whitney). 1896. p. 143	A10.3:33
Crop production and (whitney). 1894. p. 129	A1.10:594
Crops and, note on, 1892–98 (Abbe). p. 16	A29.6:28   A15.2:Ir7
Cultivation of, by irrigation, 1891 (Hinton)	A10.2.111
ing (Hartwell), 1901, p. 73	A7.3:62
Different, ammonium sulphate and cotton-seed meal in, nitrifica-	
tion of (Withers and Fraps). 1902. p. 36	A7.3:67
Dry and moist, capillary movement of water in (Briggs and Lapham). 1902. p. 19	A26.3:19
Electrical resistance of, effect of water and soluble salts on	N .
(Whitney and Means). 1897	A26.3:8
Evaporation of water from, salts as influencing rate of (Briggs).	A1.8:64
Exhaustion and abandonment of, testimony of Milton Whitney	A1.6:04
before Industrial Commission. 1901	A1.8:70
Features of, that should be recognized in all plat work (Whitney).	
1891. p. 91  Ferments important in agriculture (Wiley). 1895. p. 69	A10.3:7 A1.10:895
Fertility of—	A1.10:080
humus in its relation to (Snyder). 1895. p. 131	A1.10:895
influence of different systems of farming on. p. 9	A1.9:87
loss of, in drainage water. 1898. p. 4	A1.9:73   A1.9:144
restoration of. 1897. p. 686	A1.10:897
Fertilization of, as affecting orange, in health and disease (Web-	
ber). 1894. p. 193.	A1.10:894
Field, moisture in. 1896	A26.3:4
same (Salisbury). 1899. p. 91	A29.3:24
same (Salisbury). 1899. p. 91 Growing various crops on, effect of. 1897. p. 684	A1.10:897
Humus in, importance of maintaining a supply of. 1898. p. 5	A1.9:78
Inoculation for leguminous plants (May and Beal). 1901. p. 7. Investigation of. See Soil survey.	A1.9:124
Liming of—	
from a physiological standpoint (Loew), 1901	A19.3:1
report on (Wheeler). 1898	A1.9:77
Mechanical analysis of— methods of. 1896.	A26.3:4
some necessary modifications in methods of, as applied to	
alkali soils (Briggs). 1900. p. 173	A1.8:64
Moisture in—	A1 0.07
conserving and economizing. 1899. p. 5 determination by electrical method (Gardner). 1898	A26.3:12
electrical instruments for determining (Briggs). 1899	A26.3:15
influence of salt and similar substances on (Beal). 1900. p. 5.	A1.9:114
mechanics of (Briggs)	A28.3:10
record of amount of water contained in soils dowing.	
May, 1895	A26.3:1
June, 1895	A26.3:2

	Classification no
Soils—Continued	•
Moisture in—Continued	
record of amount of water contained in soils during—Cont'd. July, 1895	A26.3:3
Julý, 1895. 1896, crop season (Whitney and Hosmer)	A26.3:9
Nitric acid in, determination of, by Schloesing's method, at Roth-	
amsted laboratory (Warington). 1886. p. 47	A7.3:11
Nitrification and denitrification in, lectures on (Warington). 1892.	
Nitrogen hungriness in, recognition of (Hilgard). 1895. p. 58.	A7.3:47
Nitrogen in, of some of the experimental fields at Rothamsted, determination of, and bearing of results on question of source	
of nitrogen of our crops (Lawes and Gilbert). 1882. p. 142.	A1.8:31
Particles, division of, in mechanical analysis, plea for scientific	
basis for (Hopkins). 1898. p. 64	A7.3:56
Phosphoric acid and potash in, determination of (Goss). 1895.	A 70 47
p. 50 Phosphoric acid in—	A7.3:47
estimation of, by double precipitation with molybdic solution	
and titration of ammonium phosphomolybdate with stand-	
ard alkali (Williams). 1895. p. 82.	A7.3:47
method for determination of (Goss). 1894. p 58	A7.3:43
Physical analysis of (Whitney). 1895. p. 60	A7.3:47
Physical properties of— adaptation of methods of cultivation and manuring to (Wollny).	
1900. p. 805.	A10.6:11
artificial changes of (Wollny). 1900. p. 604.	A10.6:11
investigations on (Briggs). p. 413	A26.5:900 <sup>1</sup>
in relation to moisture and crop distribution (Whitney). 1892.	A29.3:4
nature of (Wollny). 1896. pp. 761, 853, 948	A10.6:6
p. 397	A1.10:900
relation of, to cultivation of plants (Wollny). 1893. pp. 528,	111.10.000
627	A10.6:4
Physical tests of (Loughridge). 1893. p. 156	A10.3:16
Problems, some interesting (Whitney). 1897. p. 429	A1.10:897
Products and, of southwestern Louisiana (Rapley). 1884	A10.5:110 A1 8:35
Reasons for cultivating (Whitney). 1895. p. 123	A1.10:895
Relations of climate to (Hilgard). 1892	A29.3:3
Samples of—	
instructions for taking, for moisture determination (Whitney).	A 90 A .0
method for taking, for analysis (Hopkins). 1902. p. 152	A26.4:2 A7.3:67
Sandy, treatment of (Beal). 1901. p. 10	A1.9:124
Shading, effect of, notes on (Abbe). 1896. p. 374	A29.6:24
Shifting, grasses for fixing (Vasey). 1872. p. 223.	A27.9:10
Soluble mineral matter of (Means). 1898. p. 495	A1.10:898
ney and Means). 1897	A26.3:8
same (Briggs). 1899.	A26.3:15
Solvents for available potash, and phosphoric acid (Huston and	
Bartlett). 1896. p. 91	A7.3:49
Sorghum and sugar producing, character and composition of (Richardson). 1886. p. 60	A7.3:10
Strawberry. 1902. p. 16.	A1.9:149
Strawberry. 1902. p. 16. Study of, application of theory of solution to (Cameron). 1899.	
n. 141	A 1 8 · 61
same (Cameron). 1900. p. 423. Survey of. See Soil survey.	A26.5:900 <sup>1</sup>
Swamp, marsh or muck, utilization of. 1898. p. 7	A1 9.78
Temperature and moisture of, in Red River valley, notes on,	1210110
1892–98 (Abbe). p. 477	
Temperature of—	
electrical instruments for determining (Briggs). 1899	A26.3:15
electrical method of determining (Whitney and Briggs). 1897.	A20.517 A97 Q.5
notes on, 1867. p. 255	A29.6:29
	VIVINV

Index	Classification no.
Soils—Continued	
Tests with fertilizers, explanations and directions for. 1889	A10.4:8
Texture of some typical— 1895. p. 556	A1 10.895
1896. p. 602	A1.10:896
same	A26.3:5
Tillage and products of, on irrigated lands (Cureton). 1887. p. 282.	A15.2:P94 ' A26.3:11
Tobacco of United States (Whitney). 1898	A20.3.11
determination of (Snyder). 1895. p. 48	A7.3:47
Types of— descriptions of. 1902	A26.2:F45
list of, established by Division of Soils in 1899 and 1900, with	A20.2.F45
brief description	A26.2:T99
Vegetable productions of, relation of entomology to, with reference to destructive and beneficial insects (Rathvon). p. 372.	A 1 1.009
Washed, how to prevent and reclaim them. 1894	
Water in—	· 
capillary rise of, influence of dissolved salts on (Briggs and	A 902 9.10
Lapham). 1902. p. 5	A20.3:19 A1.10:898
See also Alkali soils—California—Clay—Florida—Georgia—	
Hawaiian soils — Maine — Mississippi — Mud — Plant-soil	
tests — Salt Lake Valley, Utah — Sand — South Carolina. Soils and ash. See also Ash.	
Soils and ash, committee on, report of, at Convention of Association	
of Official Agricultural Chemists:	A 77 O . O 1
1891 (Soils only). p. 116	
1894. p. 28	A7.3:43
1895. p. 30	
1896. p. 80	
1898. p. 49	A7.3:56
1898. Supplemental report on ash. p. 56	A7.3:56
1899. p. 74. 1900. (Soils only.) p. 60.	
1901. (Soils only.) p. 28	
Soils Bureau, Agriculture Department, formerly Agricultural Soils	
Division; afterwards Soils Division: Field operations of—	<b>A26.</b>
1899. (Whitney)	A1.8:64
1900	
Field parties of, instructions to, and descriptions of soil types.	A26.5:901
1902	A26.2:F45
Soil collection of, catalogue of first 4,000 samples in (Whitney). 1899	A26.3:16
Work of, for farmer (Whitney). 1897. p. 122	A1.10:897 A10.3:20
Solano County, Cal., cattle quarantine, order for. Feb. 26, 1900	A4.5:59
Solar and terrestrial magnetism, and their relations to meteorology	A 00. 0.01
(Bigelow). 1898. Solar constant, report on (Very). 1901. p. 357.	A29.3:21 A29.6:29
Solar eclipse:	
Observations during, notes on (Abbe). 1900. p. 449.	A29.6:28
Total, of May 28, 1900, probable cloudiness during (Abbe). p. 422. Solar halo, note on (Abbe). 1899. p. 59	A29.6:27 A29.6:27
Solar halo, note on (Abbe). 1899. p. 59	
meteorology (Bigelow). p. 519	A29.1:891 <sup>3</sup>
Solar radiation, observations of; how best made and compiled (Schwolson). 1896. p. 721	A29.3:11 <sup>8</sup>
Solar rays, physical and meteorological researches on, made at agri-	
cultural climatology station, Juvisy observatory (Flammarion).	A10 0.70
1899. pp. 103, 203. Solar spots, notes on (Abbe). 1900. p. 109.	A10.6:10 A29.6:28
Solberg, E. Phosphoric acid, citrate, soluble and insoluble, as de-	
termined by different methods. 1895. p. 85	A7.3:47

	Classification m
Soldiers' Home herd of cattle. See Bovine tuberculosis.	
Soluble acids, estimation of, in butter fat (Planchon). 1890. p. 112.	A7.3:24
Soluble ferments. See Enzymes.	
Soluble salts. See Soils.	
Solution, theory of, application of, to study of soils (Cameron).	A1.8:64
1899. p. 141 Same (Cameron). 1900. p. 423	
Solvents. See Soil solvents.	1120.0.00
Somali, or black-head, sheep (Masterson). p. 522	A4.1:898.
Sommers, Miss Sarah L. Land-grant colleges and agricultural exper-	
imental stations in United States, compilation of statistics of,	
for 1897	A10.3:51
Same, for 1898	A10.3:64
Song birds. See Birds.	
Sonora, Mexico, plants of, collected by Edward Palmer in the years 1890 and 1891 (Rose). 1895. p. 293.	A6.5:1
Sooty mold of orange, treatment of (Webber). 1895	A 28 4 · 15
Sorauer, P. Potato scab, report on. 1889. p. 47.	A6.3:8
Sorex. See Shrews.	
Sorgho-canes, sugar determinations from, partial summary of. 1880.	
No. 25. p. 23	A27.9:18
Same. No. 27. p. 23.	A27.9:18
Sorghum, or northern sugar cane:	1070.4
Analysis of (Erni). 1866. p. 336	A27.9:4
Analytical work done on, by Chemical Division, July-Dec., 1880 (Collier.) 1881	A1.6:33
(Collier.) 1881	A7.3:8
As a forage crop (Williams). 1897.	A1.9:50
Botanical history of (Pech). p. 299	A1.1:865
Cultivation of, character and composition of soils best adapted to—	
(Bollman). p. 140	A1.1:862
(Richardson). 1886. p. 60	
(Smith). p. 129.	A1.1:862
Culture and distillation of (Leplay). 1887. p. 110	A7.3:18 A7.3:34
Culture at Sterling, Kans. (Denton). 1891. p. 78	A7.0.04
Data relating to, as sugar-producing plant. 1887. p. 59	A7.3:18
Encouragement of beet-sugar industry and. 1883	A1.8:26
Experiments with. See Wiley, Harvey Washington.	
Growing in Spain (Heredia and Hermanos). 1893. p. 34	
Improvement of, by selection. 1899. p. 7	
Introduction of, into United States. 1883. No. 2. p. 24	A27.9:21
Investigation of, as a sugar-producing plant (Collier)  Italy. 1884. p. 77	
Maize and—	A1.0.0
as sugar plants. p. 228	A1.1:877
manufacture of sugars from, circular (Le Duc). 1879	A1.8:15
Report on (Clough). p. 54	A1.1:864
Seeds of, Cecidomyiid injurious to (Coquillett). 1898. p. 81	A9.6:18
See also Orange sorghum cane — Saccharine sorghums.	400 5 5
Sorghum blight, status of (Kellerman and Swingle). 1889. p. 195.	
Sorghum molasses, statistics of 1862-63. No. 5. p. 4	A27.8.1
Manufacture of—	
circular on (Spencer). 1894.	A7.4:1
report on (Denton). 1901	A1.9:135
same. 1899	A1.9:90
New refining process for. 1867. p. 53	A27.9:5
See also Sirups.	
Sorghum sugar:	A7.3:37
Cold clarification of (O'Brien). 1892. p. 88	AI.U.UI
met plantation sugar experiment station — Cedar Falls, Iowa —	
Conway Springs, Kans. — Douglas, Kans. — Fort Scott,	
Kans. — Kansas — Kenner, La. — Lawrence, La. — Meade,	
Kans. — Medicine Lodge, Kans. — Morrisville, Va. — Ness	
City, Kans. — Rio Grande, N. J. — Sterling, Kans.	l

Sorphum sugar—Continued   Industry of, address on (Loring)	Index	Classification no.
Agriculture of Legister of Legister of Legister of Legister of Legister of Legister of Legister of Legister of Legister of Legister relative to (Le Duc). 1879	Sorghum sugar—Continued	
Agriculture on 1880	Industry of, address on (Loring)	A1.6:54
Manufacture of—circular relative to (Le Duc). 1879	Letter of Commissioner of Agriculture to Senate Committee on	A 1 9-16
report on. 1863. No. 3. p. 11		A1.0.10
See also Sugar.         Soekins, Selik.         Fat, formation of, in animal body.         1897.         p. 179         A10.6:8           Soule, Andrew M.         Beef and dairy cattle, conformation of.         1902.         A1.9:143           Soule, Frank.         Irrigation from San Joaquin River, Cal.         1901.         p.           Soulhet, F.         Citric acid in milk, report on:         1889.         p. 155.         A7.3:24           Sounds, measuring and photographing, advance in (Sharpe).         A89.         A29.6:27           Souring of milk, and other changes in milk products.         1895.         A29.6:27           South:         Agricultural courses in, principles underlying formation of (Coates).         A1.9:25           Agricultures curvey of, report of (Peters).         1867.         p. 192.         A27.9:5           See also Southern agriculture.         A27.9:5         A22.9:5         A27.9:5           See also Southern agriculture.         A29.6:27         A1.9:18         A1.9:31           Corn culture in.         (Tracy).         1898.         A22.3:25           Post also Southern agriculture.         A2.2:3:25         A22.3:25           Forage plants for (Tracy).         1894.         A1.9:13         A1.9:13           Dairying in (Tracy).         1894.         A2.1:43	circular relative to (Le Duc). 1879	A1.8:15
See also Sugar.         Soekins, Selik.         Fat, formation of, in animal body.         1897.         p. 179         A10.6:8           Soule, Andrew M.         Beef and dairy cattle, conformation of.         1902.         A1.9:143           Soule, Frank.         Irrigation from San Joaquin River, Cal.         1901.         p.           Soulhet, F.         Citric acid in milk, report on:         1889.         p. 155.         A7.3:24           Sounds, measuring and photographing, advance in (Sharpe).         A89.         A29.6:27           Souring of milk, and other changes in milk products.         1895.         A29.6:27           South:         Agricultural courses in, principles underlying formation of (Coates).         A1.9:25           Agricultures curvey of, report of (Peters).         1867.         p. 192.         A27.9:5           See also Southern agriculture.         A27.9:5         A22.9:5         A27.9:5           See also Southern agriculture.         A29.6:27         A1.9:18         A1.9:31           Corn culture in.         (Tracy).         1898.         A22.3:25           Post also Southern agriculture.         A2.2:3:25         A22.3:25           Forage plants for (Tracy).         1894.         A1.9:13         A1.9:13           Dairying in (Tracy).         1894.         A2.1:43	report on. 1863. No. 3. p. 11	A27.9:1
Soule, Andrew M. Beef and dairy cattle, conformation of. 1902. 215.         A1.9:143           Soule, Frank. Irrigation from San Joaquin River, Cal. 1901. p. 215.         A10.3:100           Soulhet, F. Citric acid in milk, report on: 1889. p. 155.         A7.3:24           Sounds, measuring and photographing, advance in (Sharpe). 1899. p. 206.         A22.6:27           Souring of milk, and other changes in milk products. 1895.         A22.6:27           South:         Agricultural courses in, principles underlying formation of (Coates). 1900. p. 59.         A10.3:76           Agriculture courses in, principles underlying formation of (Coates). 1900. p. 59.         A27.9:5           See also Southern agriculture.         A20.0:7           Cooperative branch grass stations in (Tracy). p. 344         A61.891           Corn culture in. (Tracy). 1898.         A1.9:31           Corn culture in. (Tracy). 1898.         A1.9:31           Dairying in (Tracy). 1902.         A1.9:31           Development of (Hanna). 1902. p. 53.         A22.3:25           Forage plants for (Tracy). 1894.         A1.9:18           Same, P. 362.         A1.9:18           Grape growing in the (Tracy). 1900.         A1.9:18           Grape growing in the (Tracy). 1909.         A1.2:31           All grasses and forage plants for cultivation in (Vasey). 1875.         A27.9:3           All grass		A1.1.000
Soule, Frank   Irrigation from San Joaquin River, Cal. 1901. p. 215   A10.3:100	Soskins, Selik. Fat, formation of, in animal body. 1897. p. 179	A10.6:8
215	Soule, Andrew M. Beel and dairy cattle, conformation of 1902	A1.9:143
Sounds, measuring and photographing, advance in (Sharpe)   1899.   205.		A10.3:100
Souring of milk, and other changes in milk products. 1895	Soulhet, F. Citric acid in milk, report on: 1889. p. 155	A7.3:24
South: Agricultural courses in, principles underlying formation of (Coates). 1900. p. 59.		A 29 6.27
Agricultural courses in, principles underlying formation of (Coates). 1900. p. 59.  Agriculture survey of, report of (Peters). 1867. p. 192.  Agriculture survey of, report of (Peters). 1867. p. 192.  A27.9:5  See also Southern agriculture.  Cooperative branch grass stations in (Tracy). p. 344  Corn culture in. (Tracy). 1898.  Corn culture in. (Tracy). 1898.  Dairying in (Tracy). 1802.  Development of (Hanna). 1902. p. 53.  Forage plants for (Tracy). 1894.  Same.  Forage plants grown in, composition of (Tracy). 1896. p. 91.  A19:18  Forage plants grown in, composition of (Tracy). 1896. p. 91.  A10.6:6  Grape growing in the (Tracy). 1900.  Same, p. 362.  Hog raising in (Tracy). 1899.  Industry of, notes on. 1866. p. 412.  Same. 1867. p. 371.  Northern emigration to. 1865. No. 6. p. 12.  A27.9:5  Northern emigration to. 1865. No. 6. p. 12.  A27.9:5  Northern emigration to. 1865. No. 6. p. 12.  A27.9:5  Ramie culture in (Dodge). 1893. p. 164.  A10.3:16  Sheep husbandry in (Hayes). 1879. p. 63.  Urban population in; country being deserted; whither are we tending? 1894. p. 572.  Winter forage crops for (Ball). 1902.  See also Southern agriculture of, with maps and latest statistics of trade (Barnes).  1892.  Cotton crop and its enemies in, consular reports on. 1885. App., p. 59.  A27.9:24  Fungi from, observations on new species (Lagerheim). 1891. p. 44.  Fungi from, observations on new species (Lagerheim). 1891. p. 44.  Fungi from, observations on new species (Lagerheim). 1891. p. 44.  A1.1:891  A27.9:24  Fungi from, observations on new species (Lagerheim). 1891. p. 44.  A10.3:16  A27.9:24  Fungi from, observations on new species (Lagerheim). 1891. p. 44.  A28.5:7  Isabella grape in. 1886. p. 426.  A27.9:24  Tariffs of. 1890. p. 460.  Wool production in. 1875. p. 525.  A27.9:24  South Atlantic, storms in (Pinheiro). p. 204.  A29.6:23  Black scale of California found in, note on. 1886. p. 36.  A29.6:23  A29.6:23  A29.6:23  A29.6:23  A29.6:23  A29.6:23  A29.6:23		
(Coates). 1900. p. 59		
Agriculture survey of, report of (Peters). 1867. p. 192		A10.3:76
Al. 1.891   Al.	Agriculture survey of, report of (Peters). 1867. p. 192	A27.9:5
Same, p. 344	See also Southern agriculture.	
Corn culture in. (Tracy). 1902		
Development of (Hanna). 1902. p. 53.   A22.3:25	Corn culture in. (Tracy). 1898	A1.9:81
Forage plants for (Tracy). 1894	Dairying in (Tracy). 1902	A1.9:151
Al. 9:183   Al. 9:184   Al. 9:185   Al. 9:185   Al. 9:186   Al. 9:187   Al. 6:6   Grape growing in the (Tracy). 1900.	Forage plants for (Tracy). 1894	A22.3:25 A1.9:18
Grape growing in the (Tracy). 1900. A1.9:118 Grasses and forage plants for cultivation in (Vasey). 1887. A6.3:3 Hog raising in (Tracy). 1899. A1.9:100 same, p. 362. A27.9:4 same. 1867. p. 371. A27.9:4 same. 1867. p. 371. A27.9:5 Northern emigration to. 1865. No. 6. p. 12. A27.9:3 Productions of, variety in. 1870. p. 426. A27.9:3 Ramic culture in (Dodge). 1893. p. 164. A1.2:Sh3 Urban population in; country being deserted; whither are we tending? 1894. p. 572. A27.9:3 Winter forage crops for (Ball). 1902. A27.9:32 Winter forage crops for (Ball). 1902. A27.9:32 Winter forage crops for (Ball). 1902. A27.9:32 Winter forage crops for (Ball). 1902. A27.9:32 South Africa. See Africa. South African ticks, notes on some (Lounsbury). 1900. p. 41. A9.6:26 South America: Agriculture of, with maps and latest statistics of trade (Barnes). 1892 Cotton crop and its enemies in, consular reports on. 1885. App., p. 59. A27.9:24 Fangi from, observations on new species (Lagerheim). 1891. p. 44 Prongi from, observations on new species (Lagerheim). 1891. p. 44 Tariffs of. 1890. p. 460. A27.9:28 Wool production in. 1875. p. 525 South Atlantic, storms in (Pinheiro). p. 204. A27.9:13 South Australia, products of. 1876. p. 121. A27.9:14 See also Port Carolina. South Carolina: Aurora in (Abbe). 1895. p. 297 Black scale of California found in, note on. 1886. p. 36. A2.9.3:12 Climate, soil, and agricultural capabilities of (Hemphill). 1882. Coast region of, frost formation over, some peculiarities in (Jesu-	eame	A1.9:18*
Grasses and forage plants for cultivation in (Vasey). 1887	Forage plants grown in, composition of (Tracy). 1896. p. 91	A10.6:6
Al. 9:100   Same, p. 362   Al. 1899   Industry of, notes on. 1866. p. 412   A27.9:4   same. 1867. p. 371   A27.9:5   Northern emigration to. 1865. No. 6. p. 12   A27.9:3   A27.9:8   Ramie culture in (Dodge). 1893. p. 164   A10.3:16   Sheep husbandry in (Hayes). 1879. p. 63   A1.2:Sh3   Urban population in; country being deserted; whither are we tending? 1894. p. 572   A27.9:32   Winter forage crops for (Ball). 1902   A1.9:147   See also Southern States—and names of States.   South Africa. See Africa.   South African ticks, notes on some (Lounsbury). 1900. p. 41   A9.6:26   A27.8:2   Cotton crop and its enemies in, consular reports on. 1885. App., p. 59   A27.9:24   Fungi from, observations on new species (Lagerheim). 1891. p. 44   A28.5:7   Isabella grape in. 1866. p. 426   A27.9:24   Tariffs of. 1890. p. 460   A27.9:24   A27.9:28   Wool production in. 1875. p. 525   A27.9:28   A27.9:28   Wool production in. 1875. p. 525   A27.9:13   South Atlantic, storms in (Pinheiro). p. 204   A27.9:14   See also Port Carolina: Aurora in (Abbe). 1895. p. 297   A29.6:23   A29.6:23   Black scale of California found in, note on. 1886. p. 36   A29.6:23   A29.6:23   A29.6:23   A20.6:23   A20.6:25   A27.9:14   Grasses and forage plants for cultivation in (Vasey). 1887	A1.9:118 A6.3:3	
Same. 1867. p. 371   A27.9:5	Hog raising in (Tracy). 1899	A1.9:100
Same. 1867. p. 371   A27.9:5	same, p. 362	A4.1:899
Northern emigration to. 1865. No. 6. p. 12.	same. 1867. p. 371	A27.9:4 A27.9:5
Ramie culture in (Dodge). 1893. p. 164	Northern emigration to. 1865. No. 6. p. 12.	A27.9:3
Sheep husbandry in (Hayes). 1879. p. 63. Urban population in; country being deserted; whither are we tending? 1894. p. 572 Winter forage crops for (Ball). 1902	Productions of, variety in. 1870. p. 426	A27.9:8
Urban population in; country being deserted; whither are we tending? 1894. p. 572  Winter forage crops for (Ball). 1902. A1.9:147  See also Southern States—and names of States.  South Africa. See Africa.  South African ticks, notes on some (Lounsbury). 1900. p. 41	Sheep husbandry in (Hayes). 1879. p. 63	A1.2:Sh3
See also Southern States — and names of States.  South Africa. See Africa.  South African ticks, notes on some (Lounsbury). 1900. p. 41	Urban population in; country being deserted; whither are we	
See also Southern States — and names of States.  South Africa. See Africa.  South African ticks, notes on some (Lounsbury). 1900. p. 41	tending? 1894. p. 572 Winter foregreating for (Rell) 1902	A27.9:32
South African ticks, notes on some (Lounsbury). 1900. p. 41	See also Southern States—and names of States.	A1.0.14
South America: Agriculture of, with maps and latest statistics of trade (Barnes).  1892 Cotton crop and its enemies in, consular reports on. 1885. App., p. 59 Earthquakes in, notes on (Abbe). 1898. p. 365 Foreign trade of. 1886. p. 443 Fungi from, observations on new species (Lagerheim). 1891. p. 44 Isabella grape in. 1866. p. 426 Tariffs of. 1890. p. 460 Wool production in. 1875. p. 525 South Atlantic, storms in (Pinheiro). p. 204 South Australia, products of. 1876. p. 121 See also Port Carolina. South Carolina: Aurora in (Abbe). 1895. p. 297 Black scale of California found in, note on. 1886. p. 36 Climate, soil, and agricultural capabilities of (Hemphill). 1882. Climate, soil, frost formation over, some peculiarities in (Jesu-		40.00
Agriculture of, with maps and latest statistics of trade (Barnes).  1892  Cotton crop and its enemies in, consular reports on. 1885. App., p. 59  Earthquakes in, notes on (Abbe). 1898. p. 365  Foreign trade of. 1886. p. 443  Fungi from, observations on new species (Lagerheim). 1891. p. 44. Isabella grape in. 1866. p. 426  Tariffs of. 1890. p. 460  Wool production in. 1875. p. 525  South Atlantic, storms in (Pinheiro). p. 204  See also Port Carolina.  South Carolina:  Aurora in (Abbe). 1895. p. 297  Black scale of California found in, note on. 1886. p. 36  Climate, soil, and agricultural capabilities of (Hemphill). 1882. Cloast region of, frost formation over, some peculiarities in (Jesu-	South America:	A9.6:26
Cotton crop and its enemies in, consular reports on. 1885. App., p. 59  Earthquakes in, notes on (Abbe). 1898. p. 365. A29.6:26 Foreign trade of. 1886. p. 443. A27.9:24 Fungi from, observations on new species (Lagerheim). 1891. p. 44. A28.5:7 Isabella grape in. 1866. p. 426. A27.9:4 Tariffs of. 1890. p. 460. A27.9:28 Wool production in. 1875. p. 525. A27.9:13 South Atlantic, storms in (Pinheiro). p. 204. A29.3:11¹ South Australia, products of. 1876. p. 121. A27.9:14 See also Port Carolina. South Carolina: Aurora in (Abbe). 1895. p. 297. A29.6:23 Black scale of California found in, note on. 1886. p. 36. A9.3:12 Climate, soil, and agricultural capabilities of (Hemphill). 1882. A1.6:47 Coast region of, frost formation over, some peculiarities in (Jesu-		
Earthquakes in, notes on (Abbe). 1898. p. 365. A29.6:26 Foreign trade of. 1886. p. 443. A27.9:24 Fungi from, observations on new species (Lagerheim). 1891. p. 44. A28.5:7 Isabella grape in. 1866. p. 426. A27.9:4 Tariffs of. 1890. p. 460. A27.9:28 Wool production in. 1875. p. 525. A27.9:13 South Atlantic, storms in (Pinheiro). p. 204. A29.3:11¹ South Australia, products of. 1876. p. 121. A27.9:14  See also Port Carolina. South Carolina: Aurora in (Abbe). 1895. p. 297. A29.6:23 Black scale of California found in, note on. 1886. p. 36. A29.3:12 Climate, soil, and agricultural capabilities of (Hemphill). 1882. A1.6:47  Coast region of, frost formation over, some peculiarities in (Jesu-		A27.8:2
Earthquakes in, notes on (Abbe). 1898. p. 365	n. 59	A8.1:4
Fungi from, observations on new species (Lagerheim). 1891. p. 44. A28.5:7 Isabella grape in. 1866. p. 426. A27.9:4 Tariffs of. 1890. p. 460. A27.9:28 Wool production in. 1875. p. 525. A27.9:13 South Atlantic, storms in (Pinheiro). p. 204. A29.3:11¹ South Australia, products of. 1876. p. 121. A27.9:14 See also Port Carolina. South Carolina: Aurora in (Abbe). 1895. p. 297. A29.6:23 Black scale of California found in, note on. 1886. p. 36. A9.3:12 Climate, soil, and agricultural capabilities of (Hemphill). 1882. A1.6:47 Coast region of, frost formation over, some peculiarities in (Jesu-	Earthquakes in, notes on (Abbe), 1898, p. 365	A29.6:26
Isabella grape in. 1866. p. 426.  Tariffs of. 1890. p. 460  Wool production in. 1875. p. 525  South Atlantic, storms in (Pinheiro). p. 204  South Australia, products of. 1876. p. 121  South Carolina:  Aurora in (Abbe). 1895. p. 297  Black scale of California found in, note on. 1886. p. 36  Climate, soil, and agricultural capabilities of (Hemphill). 1882.  Coast region of, frost formation over, some peculiarities in (Jesu-		
Tariffs of. 1890. p. 460  Wool production in. 1875. p. 525  South Atlantic, storms in (Pinheiro). p. 204  South Australia, products of. 1876. p. 121  See also Port Carolina.  South Carolina:  Aurora in (Abbe). 1895. p. 297  Black scale of California found in, note on. 1886. p. 36  Climate, soil, and agricultural capabilities of (Hemphill). 1882. A1.6:47  Coast region of, frost formation over, some peculiarities in (Jesu-	Isabella grape in. 1866. p. 426	A27.9:4
South Atlantic, storms in (Pinheiro). p. 204  South Australia, products of. 1876. p. 121  See also Port Carolina.  South Carolina:  Aurora in (Abbe). 1895. p. 297  Black scale of California found in, note on. 1886. p. 36  Climate, soil, and agricultural capabilities of (Hemphill). 1882. A1.6:47  Coast region of, frost formation over, some peculiarities in (Jesu-	Tariffs of. 1890. p. 460	A27.9:28
South Australia, products of. 1876. p. 121  See also Port Carolina.  South Carolina:  Aurora in (Abbe). 1895. p. 297  Black scale of California found in, note on. 1886. p. 36  Climate, soil, and agricultural capabilities of (Hemphill). 1882. A1.6:47  Coast region of, frost formation over, some peculiarities in (Jesu-	Wool production in. 1875. p. 525	A27.9:13
See also Port Carolina.  South Carolina:  Aurora in (Abbe). 1895. p. 297	South Australia, products of 1876, p. 121	A29.3:11 - A27.9:14
Aurora in (Abbe). 1895. p. 297	See also Port Carolina.	
Black scale of California found in, note on. 1886. p. 36		4 90 <i>a.</i> 99
Climate, soil, and agricultural capabilities of (Hemphill). 1882 A1.6:47  Coast region of, frost formation over, some peculiarities in (Jesu-	Black scale of California found in. note on. 1886. p. 36	A9.3:12
Coast region of, frost formation over, some peculiarities in (Jesunofsky). 1902. p. 479	Climate, soil, and agricultural capabilities of (Hemphill). 1882	A1.6:47
Farm resources and products of. 1868. p. 75	Coast region of, trost formation over, some peculiarities in (Jesu-	A 29 6-30
	Farm resources and products of. 1868. p. 75	A27.9:6

	Index Classification no.
South Carolina—Continued	410.0.100
Farmers' institute work accomplished in (Tindall). 1902. p. 28. Grapevine diseases in (Howell). 1888. p. 35	A10.3:120 A6.3:10
Grasses of, in Elliott's Sketch of botany of South Carolina and	
Georgia, notes on (Scribner), 1901	A3.4:29
Irrigation of rice in (Keeney). 1902. p. 59	A10.3:113
Rice soils of (Whitney). 1893. p. 77. Sheep husbandry in (Watts). 1877. p. 118.	A27.8:6
Storm waves of (Alexander). 1900. p. 381	A1.2:503 A20 8:99
Tea culture experiment in (Shepard). 1899	A1.8:61
Tea raising in, special report on (Shepard). p. 627	A1.1:892
Wheat in. 1870. p. 355	A27.9:8
See also Charleston — Pinehurst — Summerville. South Dakota:	
Artesian and underflow conditions in (Coffin). 1893. pt. 4,	
p. 51	A15.2:Ir72
Artesian well investigation, field work—	
(Coffin) 1890. p. 125	A15.2:Ar7
(Culver). 1890. p. 55 (Updyke). 1890. p. 110	A10.2:Ar/ A15 9.A.7
Bottom disease among horses of (Schroeder). p. 371	A4.1:891-2
Dairy industry in (Monrad). 1896	A4.3:16
Dairy industry in (Monrad). 1896	A9.7:4
Geology of, west of Missouri River (Bailey). 1890. p. 65	A15.2:Ar7
Maladie du coit among horses in, extirpation of (Nörgaard). p. 62. Mutton in, feeding for (Chilcott and Burnett). p. 471	A4.1:893-4 A4.1:898
Precipitation (rain and melted snow) at stations in, details of.	A4.1.000
1894	A29.2:P91 1
Russian thistle and other troublesome weeds in wheat region of.	
1893	A1.9:10
Snowstorms, memorable, in (Glenn). 1897. p. 15	A29.6:25
Southeastern States, grasses and forage plants of, notes on (Kearney).	
1895	A3.3:1
Southern agriculture, condition and prospects of:	A 1 1 007
1867. p. 412 1868. (Trenchard). p. 447.	A1.1:867
1870. p. 473	A27.9:8
1871. p. 398	A27.9:9
1896. (Dabney)	
Southern and northern farming. 1872. p. 359. South Pacific Ocean, winter barograph curve from (Ward). 1897.	A27.9:10
p. 484	A29.6:25
Southern cattle distemper or fever. See Blood serum—Texas or	
Southern cattle fever.	
Southern cattle ticks: Growing noninfected, and afterwards infecting them with Texas	
fever (Schroeder and Cotton). p. 33	A4.1:899
Transmission of Texas fever by (Mayo). p. 481	
Tuberculosis and, in New South Wales (Baker). p. 386	
same, correction, p. 502	
United States (Salmon and Stiles). p. 380 Vitality of (Schroeder). p. 41	A4.1:900 A4.1:899
See also Ticks.	A4.1.000
Southern fairs, agricultural representation at. 1869. p. 365*	A27.9:7
Southern farmers, suggestions to. 1899. Southern fruit growing for market. p. 143	A1.9:98
Southern fruit growing for market. p. 143	A1.1:8/1 A0 8.20
Southern interstate fair. See Atlanta, Ga.	Δσ. U.3 <del>O</del>
Southern pines:	
Five, structure of wood of (Roth). p. 133	A13.3:13 <sup>1</sup>
same, rev. ed. 1897. p. 143	A13.3:13 <sup>3</sup>
Southern planting and northern farming (Watts). 1872. p. 207	·A27.9:10
See also Farming.	
* Dr. a. minaralas. Abau au an appara a appara de force	

<sup>\*</sup>By a misprint, this page number appears twice.

Southern Railway, object-lesson roads constructed in cooperation with 1902.   A22.3:23		Classification no.
Southern States:  Apples for. p. 184 Concentrated fertilizers in. p. 387		A 22.3:23
Concentrated fertilizers in p. 397 Entomology in, report on (Garman). 1901. p. 153. Forage plants of secondary or undetermined importance for, and composition of forage plants grown in South (Tracy). 1896. p. 91		
Entomology in, report on (Garman). 1901. p. 153.   Forage plants of secondary or undetermined importance for, and composition of forage plants grown in South (Tracy). 1896. p. 91	Apples for. p. 184	A1.1:869
Forage plaints of secondary or undetermined importance for, and composition of forage plants grown in South (Tracy). 1886. p. 91  Forests, timber culture, etc., in, condition of (Baker). 1884. p. 105. Grasses for (Vasey). 1874. p. 379	Concentrated fertilizers in. p. 397	A1.1:868
P. 91	Forage plants of secondary or undetermined importance for, and	A10.3:99
Forests, timber culture, etc., in, condition of (Baker). 1884. p. 105		A 10 8-8
Grassees for (Vasey). 1874. p. 379	Forests, timber culture, etc., in, condition of (Baker). 1884.	
Resources and industrial condition of (Goodloe). p. 102		A13.5:4
Resources and industrial condition of (Goodloe). p. 102	Grasses for (Vasey). 1874. p. 379	A27.9:12
Road building in, some essentials in modern systems of (Holmes). 1902. p. 82		
Road building with convict labor in (Holmes). 1901. p. 319. A1.10:901	Road building in, some essentials in modern systems of (Holmes).	
Road conventions in, and object-lesson roads constructed under supervision of Office of Public Road Inquiries, with cooperation of Southern Railway. 1902	Road building with convict labor in (Holmes). 1901. p. 319	
Roads and road-making materials in certain. 1894	Road conventions in, and object-lesson roads constructed under	
Timber pines of, report on (Mohr).  same, introduction to report (Fernow). p. 11	tion of Southern Railway. 1902	A22.3:23
A13.3:13   Trees, some foreign, of economic value adapted to planting in 1895   New also Cotton States — South — and names of States   A13.3:11	Roads and road-making materials in certain. 1894	A22.3:7
Trees, some foreign, of economic value adapted to planting in. 1895	Timber pines of, report on (Mohr)	A 13.3:13
1895	Trees some foreign of economic value adapted to planting in	A15.5:15
Southwest: Arid lands of; new species of ground squirrel from, description of (Merriam). 1889. p. 19. Cattle ranges of, history of exhaustion of pasturage and suggestions for its restoration (Bentley). 1898.  Cooperative grass stations in (McLaren). p. 344. Grasses and forage plants for cultivation in (Vasey). 1887. Grasses of. 2 pts. (Vasey). See also names of States. Southwick, E. B.: Entomological, economic, work in parks of New York City. 1894. p. 135. Entomological, economic, work in parks of New York City. 1894. p. 135. Entomological work in Central Park, New York City. 1891. p. 599 Parsnip web-worm, report on. 1892. p. 106. Anthracnose of cotton, report on. 1891. p. 100. Ap. 7:7 Southworth, E. A.: Anthracnose of cotton, report on. 1891. p. 100. Ap. 7:7 Concentral report on. 1899. p. 100. Ap. 7:7	4000	A13.3:11
Arid lands of; new species of ground squirrel from, description of (Merriam). 1889. p. 19.  Cattle ranges of, history of exhaustion of pasturage and suggestions for its restoration (Bentley). 1898.  Cooperative grass stations in (McLaren). p. 344	See also Cotton States — South — and names of States.	
Of (Merriam). 1889. p. 19.  Cattle ranges of, history of exhaustion of pasturage and suggestions for its restoration (Bentley). 1898		
tions for its restoration (Bentley). 1898	of (Merriam). 1889. p. 19.	A5.5:2
Cooperative grass stations in (McLaren). p. 344	tions for its restoration (Rentlev) 1898	A1 9.72
Grasses of. 2 pts. (Vasey)	Cooperative grass stations in (McLaren). p. 344	A1.1:891
Grasses of. 2 pts. (Vasey)	same, p. 344	A6.1:891
Grasses of. 2 pts. (Vasey)	Grasses and forage plants for cultivation in (Vasey). 1887	A6.3:3
Grazing problems in, and how to meet them (Smith). 1899	Grasses of. Z pts. (Vasey)	A6.3:12
See also names of States.  Southwick, E. B.:  Entomological, economic, work in parks of New York City.  1894. p. 135	Same, reissued. 1891	A0.2:N82*
Southwick, E. B.: Entomological, economic, work in parks of New York City.  1894. p. 135  Entomological work in Central Park, New York City.  1891. p. 59  Parsnip web-worm, report on. 1892. p. 106  Wood-leopard moth in parks of New York City. 1894. p. 138.  Southworth, E. A.:  Anthracnose of cotton, report on. 1891. p. 100  Gloeosporium nervisequum, report on. 1889. p. 51  Hollyhock disease, new. 1891. p. 45  Ripe rot of grapes and apples. 1891. p. 164  See also, as joint author, Galloway, Beverly Thomas.  Sows and pigs at farrowing time. p. 12  Soxhlet-Engström, estimation of content of fat in milk by method of (Kühn). 1890. p. 158  Soxhlet's areometric method, estimation of fat in milk by (Klein). 1888. p. 163  Soy bean:  As feeding stuff. 1899. p. 13  As food for man (Langworthy). p. 20  As forage crop (Williams).  Spader, Comstock's rotary, description of. 1865. No. 5. p. 34  A22.4:27  Spain:  Agriculture in (Cushing). p. 287  A1.1:876		A0.0.10
Entomological, economic, work in parks of New York City.  1894. p. 135  Entomological work in Central Park, New York City.  p. 59  Parsnip web-worm, report on. 1892. p. 106  Wood-leopard moth in parks of New York City. 1894. p. 138  Southworth, E. A.:  Anthracnose of cotton, report on. 1891. p. 100  Gloeosporium nervisequum, report on. 1889. p. 51  Hollyhock disease, new. 1891. p. 45  Ripe rot of grapes and apples. 1891. p. 164  See also, as joint author, Galloway, Beverly Thomas.  Sows and pigs at farrowing time. p. 12  Soxhlet-Engström, estimation of content of fat in milk by method of (Kühn). 1890. p. 158  Soxhlet's areometric method, estimation of fat in milk by (Klein).  1888. p. 163  Sox heeding stuff. 1899. p. 13  As feeding stuff. 1899. p. 13  As forage crop (Williams).  As forage crop (Williams).  Spagnoli, D. B. Milan, Italy, cost of hauling farm products over wagon roads at. p. 10  A28.5:6  A28.5:		
Entomological work in Central Park, New York City. 1891. p. 59.  Parsnip web-worm, report on. 1892. p. 106. Wood-leopard moth in parks of New York City. 1894. p. 138. A9.7:5  Southworth, E. A.: Anthracnose of cotton, report on. 1891. p. 100. Gloeosporium nervisequum, report on. 1889. p. 51. Hollyhock disease, new. 1891. p. 45. Ripe rot of grapes and apples. 1891. p. 164. See also, as joint author, Galloway, Beverly Thomas. Sows and pigs at farrowing time. p. 12. Soxhlet-Engström, estimation of content of fat in milk by method of (Kühn). 1890. p. 158.  Soxhlet's areometric method, estimation of fat in milk by (Klein). 1888. p. 163.  Soy bean: As feeding stuff. 1899. p. 13. As food for man (Langworthy). p. 20. As forage crop (Williams). Spader, Comstock's rotary, description of. 1865. No. 5. p. 34. A22.4:27  Spain: Agriculture in (Cushing). p. 287.  A1.1:876		A9.7:7
Parsnip web-worm, report on. 1892. p. 106.  Wood-leopard moth in parks of New York City. 1894. p. 138.  Southworth, E. A.:  Anthracnose of cotton, report on. 1891. p. 100.  Gloeosporium nervisequum, report on. 1889. p. 51.  Hollyhock disease, new. 1891. p. 45.  Ripe rot of grapes and apples. 1891. p. 164.  See also, as joint author, Galloway, Beverly Thomas.  Sows and pigs at farrowing time. p. 12.  Soxhlet-Engström, estimation of content of fat in milk by method of (Kühn). 1890. p. 158.  Soxhlet's areometric method, estimation of fat in milk by (Klein).  1888. p. 163.  Soy bean:  As feeding stuff. 1899. p. 13.  As food for man (Langworthy). p. 20.  As forage crop (Williams).  Spagnoli, D. B. Milan, Italy, cost of hauling farm products over wagon roads at. p. 10.  Spain:  Agriculture in (Cushing). p. 287.  A1.1:876	Entomological work in Central Park, New York City. 1891.	22(0000
Southworth, E. A.:  Anthracnose of cotton, report on. 1891. p. 100	p. 59	A9.7:4
Southworth, E. A.:  Anthracnose of cotton, report on. 1891. p. 100	Parsnip web-worm, report on. 1892. p. 106.	A9.7:5
Anthracnose of cotton, report on. 1891. p. 100. A28.5:6 Gloeosporium nervisequum, report on. 1889. p. 51. A28.5:5 Hollyhock disease, new. 1891. p. 45. A28.5:6 Ripe rot of grapes and apples. 1891. p. 164. A28.5:6 See also, as joint author, Galloway, Beverly Thomas. Sows and pigs at farrowing time. p. 12. A1.9:97 Soxhlet-Engström, estimation of content of fat in milk by method of (Kühn). 1890. p. 158. A7.3:24 Soxhlet's areometric method, estimation of fat in milk by (Klein). 1888. p. 163 Soy bean: As feeding stuff. 1899. p. 13. A1.9:97 As food for man (Langworthy). p. 20. A1.9:58 As forage crop (Williams). A1.9:58 Spader, Comstock's rotary, description of. 1865. No. 5. p. 34. A27.9:3 Spagnoli, D. B. Milan, Italy, cost of hauling farm products over wagon roads at. p. 10. A22.4:27 Spain: Agriculture in (Cushing). p. 287. A1.1:876	wood-leopard mountin parks of New York City. 1004. p. 1001.	A9.7:7
Gloeosporium nervisequum, report on. 1889. p. 51		198 5-8
Hollyhock disease, new. 1891. p. 45 Ripe rot of grapes and apples. 1891. p. 164  See also, as joint author, Galloway, Beverly Thomas.  Sows and pigs at farrowing time. p. 12  Soxhlet-Engström, estimation of content of fat in milk by method of (Kühn). 1890. p. 158  Soxhlet's areometric method, estimation of fat in milk by (Klein). 1888. p. 163  Soy bean:  As feeding stuff. 1899. p. 13  As food for man (Langworthy). p. 20  As forage crop (Williams)  Spader, Comstock's rotary, description of. 1865. No. 5. p. 34  Spagnoli, D. B. Milan, Italy, cost of hauling farm products over wagon roads at. p. 10  Spain:  Agriculture in (Cushing). p. 287  A1.1:876	Gloeosporium nerviseguum, report on. 1889. p. 51	A28.5:5
Ripe rot of grapes and apples. 1891. p. 164	Hollyhock disease, new. 1891. p. 45.	A28.5:6
Sows and pigs at farrowing time. p. 12  Soxhlet-Engström, estimation of content of fat in milk by method of (Kühn). 1890. p. 158  Soxhlet's areometric method, estimation of fat in milk by (Klein).  1888. p. 163  Soy bean:  As feeding stuff. 1899. p. 13  As food for man (Langworthy). p. 20  As forage crop (Williams)  Spader, Comstock's rotary, description of. 1865. No. 5. p. 34  Spagnoli, D. B. Milan, Italy, cost of hauling farm products over wagon roads at. p. 10  Spain:  Agriculture in (Cushing). p. 287  A1.9:97  A1.9:97  A1.9:97  A22.4:27	Ripe rot of grapes and apples. 1891. p. 164	A28.5:6
Soxhlet-Engström, estimation of content of fat in milk by method of (Kühn). 1890. p. 158.  Soxhlet's areometric method, estimation of fat in milk by (Klein).  1888. p. 163.  Ar.3:24  Soy bean:  As feeding stuff. 1899. p. 13.  As food for man (Langworthy). p. 20.  As forage crop (Williams).  Spader, Comstock's rotary, description of. 1865. No. 5. p. 34.  Spagnoli, D. B. Milan, Italy, cost of hauling farm products over wagon roads at. p. 10.  Spain:  Agriculture in (Cushing). p. 287.  Ar.3:24	See also, as joint author, Galloway, Beverly Thomas.	4100
Soxhlet's areometric method, estimation of fat in milk by (Klein).  1888. p. 163  A7.3:24  Soy bean:  As feeding stuff. 1899. p. 13  As food for man (Langworthy). p. 20  As forage crop (Williams)  Spader, Comstock's rotary, description of. 1865. No. 5. p. 34  Spagnoli, D. B. Milan, Italy, cost of hauling farm products over wagon roads at. p. 10  Agriculture in (Cushing). p. 287  A1.1:876	Soxhlet-Engström, estimation of content of fat in milk by method	
Soy bean: As feeding stuff. 1899. p. 13. As food for man (Langworthy). p. 20. As forage crop (Williams). Spader, Comstock's rotary, description of. 1865. No. 5. p. 34. Spagnoli, D. B. Milan, Italy, cost of hauling farm products over wagon roads at. p. 10.  Spain: Agriculture in (Cushing). p. 287.  A7.3:24  A1.9:97 A1.9:58 A27.9:3  A27.9:3	Soxblet's areometric method estimation of fet in milk by (Klein)	A1.5:24
As feeding stuff. 1899. p. 13 As food for man (Langworthy). p. 20 As forage crop (Williams)  Spader, Comstock's rotary, description of. 1865. No. 5. p. 34 Spagnoli, D. B. Milan, Italy, cost of hauling farm products over wagon roads at. p. 10  Spain: Agriculture in (Cushing). p. 287  A1.9:58 A27.9:3  A22.4:27	1888. p. 163	
As food for man (Langworthy). p. 20  As forage crop (Williams).  Spader, Comstock's rotary, description of. 1865. No. 5. p. 34  Spagnoli, D. B. Milan, Italy, cost of hauling farm products over wagon roads at. p. 10  Spain:  Agriculture in (Cushing). p. 287  A1.1:876	As feeding stuff. 1899. p. 13	A1.9:97
As forage crop (Williams)	As food for man (Langworthy). p. 20	A1.9:58
Spagnoli, D. B. Milan, Italy, cost of hauling farm products over wagon roads at. p. 10 A22.4:27  Spain: Agriculture in (Cushing). p. 287 A1.1:876	As forage crop (Williams)	A 1.9:58
Spain: Agriculture in (Cushing). p. 287	Spagnoli, D. B. Milan, Italy, cost of hauling farm products over	
Agriculture in (Cushing), p. 287	Spain:	
Eggs in. p. 609 Foreign trade of (Hitchcock). 1898 A4.1:901 A12.3:11	Agriculture in (Cushing), p. 287	A1.1:876
Foreign trade of (Hitchcock). 1898	Eggs in. p. 609	A4.1:901
	roreign trade of (Hitchcock). 1898	A1Z.5:11

	Index
	Classification no.
Spain—Continued Forest trees in, planting of, and destruction of locusts. 1876.	
p. 263	A27.9:14
Irrigation in. 1891. p. 278.	A10.2:P94 *
Our made with, 1000-07 (linemeda). 1000	1112.0.12
Sorghum growing in (Heredia and Hermanos). 1893. p. 34 See also Malaga.	A7.3:40
Spalding, V. M. White pine, report on, revised and enlarged by	
B. E. Fernow. 1899	A13.3:22
Spallanzani, Pellegrino. Volatile acids, fatty, of butter, contribu-	
tion to study of. 1890. p. 104	A7.3:24
Spanish almonds and their introduction into America (Fairchild).	
1902	A19.3:26
Spanish fever of cattle:	4.011.0.0
Investigation of (Catron). 1868. p. 357	A27.9:6
Note on—	10505
1867. pp. 54, 135	A27.9:5
1868. pp. 180, 404	A27.9:6
Spanish merinos and their management (Boynton). p. 196	A1.1:804
Spanworm, walnut, report on (Coquillett). 1897. p. 64	A9.6:7
Sparganum mansoni. See Larval cestode.	11221
Spark-arresters, importance of (Tilton). 1887. p. 136	710.0.1
Sparrows: Destruction of, by poisons (Fisher). 1889. p. 174	A5 3·1
Relation of, to agriculture (Judd). 1901	A5.3:15
Transing of for sporting nurnoses with paper descriptive of ap-	110.0.10
Trapping of, for sporting purposes, with paper descriptive of apparatus and methods employed (Hill). 1889. p. 178	A5.3:1
See also English sparrow — European tree sparrow — House	1101011
sparrow.	,
Sparrow hawk, special report on (Fisher). p. 491	A1.1:888
Same. p. 491	A5.1:888
Spartina:	
North American species of (Merrill). 1902	A19.3:9
Notes on. 1869. p. 136	A27.9:7
Specific gravity:	
Determination of, standard temperatures for, report on. 1897.	A7 9.51
p. 137. Limits of, of cow's milk (Schrodt). 1888. p. 154	A7.3:51   A7.3:24
Rise in, determination of, on allowing milk to stand after milk-	A1.3.24
ing (Richmond). 1894. p. 191	A7.3:43
Spectrum, absorption lines of, determination of relative quantities of	121.0.10
aqueous vapors in atmosphere by means of (Jewell). 1896	A29.3:16
Speculation v. industry. 1892. p. 134	A27.9:30
Spencer, Guilford Lawson:	
Beet sugar, machinery and processes for manufacture of, recent	
improvements in. 1885. p. 106	A7.3:5
Beet-sugar manufacture, utilization of residues from, in cattle feed-	
ing. 1898. p. 213	A1.10:898
Kjeldahl method for determination of nitrogen. 1886. p. 36	
Magnolia, sugar and sugar-cane data for four years at, summary	A7 9.10
of. 1887. p. 46. Sorghum sirup, manufacture of, circular on. 1894	A7.3.16
Sorghum-sugar experiments by various companies in Kansas.	ALI.T.A
1889. p. 7	A7.3:26
Sugar, manufacture of, at Magnolia Station, Lawrence, La., ex-	
neriments in	
2d report, season of 1885–6  3d report, 1886–7	A7.3:11
3d report, 1886-7	A7.3:15
same. p. 328	A1.1:880
1889	A7.3:21
Tea, coffee, and cocoa preparations, adulteration of. 1892. p. 875.	A7.3:13'
See also, as collaborator, Wiley, Harvey Washington.	A 1 0.502
Spencer, John W. Young people attending farmers' institutes, how to interest and instruct. 1902. p. 42  Spencer, Samuel. Roads and railroads. 1902. p. 41	A1.9:52*
bow to interest and instruct 1000 - 40	A 10 3-110
Spencer Samuel Roads and reilroads 1909 n 41	A22.3:25
Sperk, Franz Otto. Siberia, four great rivers of. 1894. p. 101	A29.3:111
-pm, z zmma voto. Nivoria, tout 610at 111016 of. 1001. p. 101p.	

Index	Classification no.
Spermophile:	
Mississippi Valley (Bailey). p. 185	A1.1:892
89.me. p. 185	A5.1:892
New, from northwestern Arizona, description of (Merriam).	4770
1889. p. 17	A5.5:2
New, from southern California, description of (Merriam). 1889.	A5.5:2
p. 15	AU.U.2
Spermonhilus spilosoms group. See Ground squirrel.	
Spermophilus spilosoma group. See Ground squirrel. Spethmann, Miss Marie T. Land-grant colleges and agricultural ex-	
periment stations in United States, compilation of statistics	
of, for 1900	A10.3:97
Same, for 1901	A10.3:114
Sphærotheca, another, upon Phytoptus distortions (Halsted). 1889.	100 E.E
p. 134. Sphærotheca phytoptophila, notes upon (Halsted). 1889. p. 85	A28.5:5 A28.5:5
Sphingidæ, list of, taken by electric lamps at Poughkeepsie, N. Y.	A20.0.0
(Dyar). 1891. p. 322.	A9.7:3
Spices, analysis of, provisional method for (Winton). 1902. p. 55	A7.3:65
Spices and condiments, adulteration of:	
1886. (Richardson). p. 291	A1.1:886
1887. (Richardson). p. 129	A7.3:13 ×
1896. (Lattimore). p. 296	A1.1:896
See also Peppers.	AQ 7.1
Spider bites, fatal, contribution to literature of. 1889. p. 204	
Same (Howard). 1891. p. 202	A9.7:4
Spider parasites, external (Howard). 1888. pp. 42, 106	
Same new (Ashmead), 1894, p. 259	1 <b>A9.7:6</b>
Spider webs, floating, note on (Abbe). 1898. p. 566	A29.6:26
Spiders:	1
Poisonous, in Madagascar. 1890. p. 273	A9.7:2
Trap-door (Glover). 1873. p. 345	A27.9:11
See also Red spiders.  Spikes, adhesion of, notes on (Fernow). 1887. p. 62	A 12 2.1
Spillman, W. J.:	A10.0.1
Farmers' institute worker. 1902. p. 59	A10.3:120
Grass and Forage Plant Investigations Office, and Agrostology	
Division, lists of publications of. 1902	A19.2:P96
Grasses and forage plants for year 1901. p. 672	A1.10:901
Hybrid offspring, quantitative studies on transmission of parental	1100115
characters to. 1902. p. 88.	A10.3:115
Washington (State) farmers' institute work accomplished in.	A10.3:120
1902. p. 43	A10.0.120
Spilosoma fuliginosa, report on (Lugger). 1890. p. 236	A9.7:2
Spinning cotton, atmospheric conditions favorable to (Abbe). 1900.	
	A29.6:28
p. 294 Spiralis trichina, report on. p. 389	A1.1:869
Splenetic fever. See Texas or Southern cattle fever.	
Spokane, Wash, climate of, 1882-99 (Stewart). p. 490	A29.6:28
Spontaneous combustion, meteorological conditions favorable to, note on (Abbe). 1900. p. 249	A29.6:28
Spores of Agaricus campestris and other Basidiomycetous fungi, pre-	1120.0.20
liminary study of (Ferguson). 1902	A19.3:16
Spores of Hymenomycetes method for preserving (Herz) 1889	
p. 163	A28.5:5
Sporidia. See Fenestrate sporidia.	
openion of the mineral first of output, income of the first of the fir	A4.3:3
Spot disease of orchard grass (Trelease). p. 129	A1.1:886 A28.1:886
Same. p. 129 Spot disease of violet (Dorsett). 1900.	A28.3.23
Spotting of peaches, report on (Smith). 1889. p. 32	A28.5:5
Sprague Elizabeth C. We as joint author Revier, Isabel.	i • ,
Sprague, G. Meat question analyzed. p. 462	A1.1:883
Sprague, Horatio J. Sausages, United States in Gibraltar. p. 519	A4.1:899
Sprayer. See Japy knapsack sprayer—Kerosene knapsack sprayer.	l

Ind	<b>e</b> x
Classification	no.

	Classification no.
Spraying:	•
Devices for, new, circular on (Gallovay). 1899	A28.4:17
Machinery for—	
manufacturers of, letter to	A10.4:17
standard fittings for (Alwood). 1891. p. 58	A9.7:4
Power sprayer for asparagus, report on (Sirrine). 1901. p. 177	A10.3:99
Pump, new, notes on (Galloway). 1891. p. 25	A 20.0:0 A 1 10.000
Without pump, preliminary notice (Aldrich)—	A1.10.090
1894. p. 114	A9.7.7
1895. p. 28	
See also Fruits — Knapsack sprayer.	
Spring, advent of (Herrmann). 1902. p. 69	A29.3:31
Spring wheat. See Wheat.	
Springfield, Mass., shade-tree insects of, and other New England	
cities (Howard). 1895. p. 40	A9.6:2
Springfield, Mo., storms at, local (Hazen). 1900. p. 201	A29.6:28
Spruce, insect enemies of, in Northeast (Hopkins). 1901	
Spruce pine (Mohr). 1896. p. 127.	
Same. 1897. p. 137.	
Sprung, A. Thermometers, on construction of registering air, to re-	
place ordinary alcohol and mercurial thermometers. 1896.	
p. 718	A29.3:11 8
Squall, local, at West Berkeley, Cal., Dec. 11, 1894 (Abbe). p. 509.	A29.6:22
Squash. See Garden vegetables.	
Squash borer (Melittia cucurbitæ) remedies for (Smith). 1891. p. 30.	
Squash bug, common, circular relative to (Chittenden). 1899	
Squash-vine borer, circular relative to (Chittenden). 1899	A9.0:38
(Bailey). 1893	A5.:34
See also Ground squirrels — Spermophile and references.	11001
Stable manure, value of. 1901. p. 5.	A1.9:133
"Staggers," disease known as, among horses in Virginia and North	
Carolina (Harbaugh). p. 209.  Stalk worm, new enemy to young tobacco (Johnson). 1899. p. 99.	A4.1:886
Stalk worm, new enemy to young tobacco (Johnson). 1899. p. 99.	A9.6:20
Stalker, M. "Loco" plant and its effect on animals. p. 271	
Stall feeding cattle and sheep (Harris). p. 317	A1.1:862
of plant of, at Bayonne, N. J., July 5, 6, and 7, 1900 (Mitchell).	
p. 325	A29.6:28
Standard Sugar Refinery, Alvarado, Cal., report on (Furnas). 1892.	1120.0.20
p. 91	A1.8:20
Standard time. See Time.	ı
Standards, National Bureau of, circular of information relating to	
(Marvin). 1902. p. 135.	A29.6:30
Standart, S. H. Live-stock industry of Colorado and Territories of	A.1 1.00K
Northwest. p. 326	A4.1:885
ernor's message. p. 4.	A22.4:33
Stannard, J. D. See, as joint author, Johnston, C. T.	112311100
Stanton, Edgar. Nettle, cultivation of, in Germany. p. 560	A1.1:878
Stapleton, D. C. Climatological data from Playa Rica, Ecuador.	
1898. p. 460	A29.6:26
Starch:	A 7 0 40
Determination of, comparison of methods (Stone). 1894. p. 162.	A7.3:43
Enzymic ferments upon (Stone). 1896.  Estimation of, report on (Browne). 1899. p. 92.	A 10.3:34 A 7 2.57
Factories in Maine (Boardman). 1885. No. 19. p. 23	A27.9:23
Manufacture of—	127.0.20
from potatoes and cassava (Wiley). 1900	A7.3:58
in Maine. 1886. p. 22	A27.9:24
Plants and animals (Taylor)—	
1875. p. 316	A27.9:13
1876. p. 196	│ <b>A27.9:14</b>
Sweet potato as producer of. 1899. p. 26	A1.9:87
NEC WED DEAUTHE — I UMWES.	I

# Index ...

	Classification no.
Starling, William. Mississippi River, floods of, with reference to inundation of alluvial valley. 1894. p. 68.	A29.3:11 <sup>1</sup>
Starnes, H. N. Mycophagy, importance of, in a course of botanical	
instruction. 1898. p. 75	A10.3:49
vation. p. 210  Stars:	A1.1:865
Heat radiation of, note on (Abbe). 1899. p. 472	A29.6:27
Shooting— hints to observers of (Harkness). 1899. p. 9	A29.6:27
observation of (Abbe). 1901. p. 420.  State live-stock sanitary boards, secretaries of State boards of health,	A29.6:29
and State veterinarians having control of contagious and	
infectious diseases among domestic animals, list of. 1898. p. 603	A.1 1-808
Same, 1899, p. 530	A4.1:899
State veterinarians and secretaries of sanitary boards, list of:	A1 10.808
1898. p. 616 1899, p. 698	A1.10:899
1900, p. 653	A1.10:900
1901, p. 628	A1.10:801
Characteristics of Utah in relation to State weather-service work	1 400 0 14
(Salisbury). 1894. p. 27	
Importance and equipment (Mitchell), 1896, p. 44	A29.3:18
Irrigation and its relation to (Salisbury). 1894. p. 24	A29.3:14
Organizations of (Dunwoody). 1895. p. 285	A29.0: A29.3:11 <sup>2</sup>
Statistics of (Fassig). 1895. p. 209.	A29.6:23
See also Climate and crop service — Weather Bureau.  State Weather Services, American Association of, proceedings of:	
1st annual meeting, 1892	A29.3:7
2d annual meeting, 1893 (Berry). p. 228.	A29.6:21
3d annual meeting, 1894 4th annual meeting, 1895	A29.3:14 A29.3:18
same, announcement of, 1895	A29.6:23
States: Agriculture reports of. See Agriculture.	<u> </u>  -
Forest condition of (Baker), 1884, p. 181	A13.5:4
Geologists of, circular letter to, requesting cooperation with Office of Road Inquiry, Agriculture Department	∣ ⊢ <b>A22.4:4</b>
Governors of, extracts from messages of, relating to good roads	Rad. T. T
(Stone). 1895.	A22.3:14
Laws relating to management of roads, enacted 1888–93 (Stone) same, 1894–95 (Stone)	
War debts of. 1866. p. 93	A27.9:4
Weights and measures of, systems of, explained. p. 218	A1.1:871
Governors of, circular letter to, requesting cooperation with Office	
of Road Inquiry, Agriculture Department	
same, to secretaries of state	P. N.22.4:2
1885. p. 471	
1886. p. 303 1890 (additional). p. 457	
1892 (additional). p. 381	A4.1:891-2
1894 (additional). p. 103	
1897. p. 419	
1899. p. 732	A4.1:899
1901	A4.3:43
1893	A15.3:1
See also Atlantic States — Eastern States. Statesville area, North Carolina, soil survey of (Dorsey and party).	
p. 273	A26.5:901 1

	Index Classification no.
Static electricity. See Electricity.	Creesingston MA.
Statistical Institute, International. 1887. p. 247	A27.9:25
Statistical reports, Statistics Division, Agriculture Department	A27.9:
Statistician, Agriculture Department, synoptical index to reports of,	
1863-1894 (Thompson). 1897	A21.3:2
Statistics, agricultural, of United States, album of (Dodge)	A27.2:St2
Statistics Division, Agriculture Department: Work of, for farmer (Hyde). 1897. p. 258	A27. A1.10:897
same, reprinted with title "Of What Service are Statistics to	A1.10.097
Farmer?"	A27.8:14
Farmer?". Statistics in agriculture. 1882. No. 49. p. 23	A 27.9:20
Stave silo, value of, to dairy farmer (Beal). 1898. p. 23	A1. 9:103
Steam, cultivation by:	
History of American inventions for (Brainerd). p. 253	A1.1:867
Note on (Lawrence). 1878. p. 358	A27.9:10
Progress in (Curtiss). p. 263. same, 1869. p. 296.	A1.1:007 A1.1:007
Steam plowing:	21.1.000
England. 1873. p. 364.	A27.9:11
Louisiana (Lawrence). p. 278	A1.1:867
New Jersey. 1869. p. 224	A27.9:7
Profit of (Lawrence). 1870. p. 149	A27.9.8
Steam plows:	A 1 1.000
American, report on. p. 305	A1.1:809
Stearns, Herman De C. Sea, effect of proximity to, on thunderstorm	A21.0.22
periods. 1898. p. 452.	A29.6:26
Stearns, Robt. Edwards Carter. Shells, land and fresh water, col-	
lected in California and Nevada by Death Valley expedition,	
including few additional species obtained by Clinton Hart	
Merriam and assistants in parts of southwestern United States,	AFEM
1893. p. 269	A5.5:7
Cattle, disease among, in Marshall County, Kansas. p. 382	A 4 1 · 898
Cattle of Porto Rico. p. 512.	A4.1:899
Steel track wagon roads. See Roads.	
Steele, Edward Strieby. Perfumery farming, can it succeed in U.S.?.	A1.10:898
Steele, J. P. Cotton insects, report on. 1885. App., p. 25	A8.1:4
Steer beef. See Beef.	
Steers: Fat, note on. 1870. p. 150	A27.9:8
Feeding experiments with, to ascertain comparative value of corn	A21.0.0
and red and white kafir corn (Georgeson). p. 483	A4.1:898
Feeding sheaf wheat to (French). p. 486	A4.1:898
Grazing, on corn and cowpeas (Langworthy). 1901. p. 27	A1.9:124
Steiner, Ralph. Munich, Germany, cost of hauling farm products	A 00 A 07
over wagon roads at. p. 9	A22.4:27
Reptiles and batrachians—	
collected by Death Valley expedition in 1891, annotated list	
of, with descriptions of new species, and field notes by	
Clinton Hart Merriam. 1893. p. 159.	A5.5:7
collected by Clinton Hart Merriam and party in Idaho, 1890,	4
annotated list of. 1891. p. 109	A5.5:5
collected by Clinton Hart Merriam and Vernon Bailey on San Francisco Mountain plateau and desert of Little Colorado,	
Arizona, annotated list of, with description of new species.	
1890. p. 103	A5.5:3
1890. p. 103  Tres Marias and Isabel Islands, reptiles of. 1897. p. 63  Stem-girdler See Current stem-girdler	A5.5:14
Stephens, Lon V. Missouri, road improvement in, extract from governor's message. p. 5	A 90 A 99
governor's message. p. 5	A.42.4:33
Stanling Vone	
Sorghum culture at (Denton). 1891. p. 78	A7.3:34
Sorghum sugar experiments at—	
Sorghum sugar experiments at— 1887 (Denton). p. 57	A7.3:17

Index	Classification mo.
Sterling, Kans.—Continued	Crassingson are-
Sorghum sugar experiments at—Continued	
1888 (Denton and Crampton). p. 287	A1.1:888
same. p. 105	A7.3:20 A7.3:20
1889 (Denton and Crampton). p. 82	A7.3:26
1892 (Fuelling). p. 30	A7.3:37
1892 (Denton). p. 76. Stern, Louis. Germany's wool import. p. 520.	A7.3:37 A4 1.899
Stetson, Ezra. Swine breeding, address on. 1883. p. 160.	A1.7:2
Stetson, Frank O.:	
Climate of Baguio, Philippine Islands. 1902. p. 478	A29.6:30
Stettin, Germany:	A20.0.20
Cost of bauling farm products over wagon roads at (Kickbusch).	1.00 . 00
p. 9	A22.4:27 A27.9:3
Stevens, James S. Atmidometry, some experiments in. 1902.	A21.5.0
p. 129	A29.6:30
Stevenson, J. C., address of, before National Road Conference.	A 99. 9.10
July, 1894. p. 22. Stewart, Charles. Climate of Spokane, Wash., 1882–1899. p. 490.	A22.3:10 A29.6:28
Stewart, E. W.:	
Cattle feeding in New York. p. 299	A1.1:876
Food, cutting and cooking, for animals. p. 396.  Stewart, John. See, as joint author, Gardner, Frank Duane.	A1.1:865
Stibadium spumosum, habits of (Murtfeldt). 1894. p. 301	A9.7:6
Stickney, L. D. Florida, soil, climate, and productions. p. 59	A1.1:862
Stigmonose, disease of carnation and other pinks (Woods). 1900 Stiles, Charles Wardell:	A28.3:19
Country slaughter-house as a factor in spread of disease. 1896.	
p. 155	A1.10:896
Disinfection of kennels, pens, and yards by fire. 1902. p. 15 Eimeriella, new genus of coccidia. 1902. p. 18	A4.3:35 A4.3:35
Flukes and tapeworms of cattle, sheep, and swine with special	M4.0100
reference to inspection of meats. 1898. p. 11	A4.3:19
Frogs, toads, and carp (Cyprinus carpio) as eradicators of fluke	A 4 1-001
disease. p. 220	A4.1:901
1902. p. 18	A4.3:35
Hookworm disease (uncinariasis or anchylostomiasis) in man,	A.1.1.001
significance of recent American cases of. p. 183	A4.1:901 A4.1:35
same. 1902. p. $\tilde{7}$	A4.3:35
Sarcosporidia, presence of, in birds. 1893. p. 79.	A4.3:3
Strongyle, Egyptian and Japanese (Strongylus subtilis), which may possibly occur in returning American troops. 1902. p.	
41	A4.3:35
Tapeworms of poultry, present knowledge of. 1896	A4.3:12
Trematodes (Monostomulum lentis and Agamodistomum ophthal- mobium) parasitic in the human eye. 1902. p. 24	A4.3:35
Trichinosis in Europe of alleged American origin. 1901. p. 156.	A4.3:30
Trichinosis in Germany, general remarks on. 1901. p. 9 same, statistical review, during 1881–1898. 1901. p. 35	A4.3:30
Verminous disease of cattle, sheep, and goats in Texas. p. 356	A4.3:30 A4.1:900
same, further investigations. p. 223	A4.1:901
Stiles, Charles Wardell, and Frankland, W. Ashby. Vinegar eel (Anguillula aceti) infection in human bladder, case of. 1902.	
p. 35	A4.3:35
Stiles, Charles Wardell, and Hassall, Albert:	
Bananas, partially digested, spurious parasitism due to. 1902.	A4.3:35
Cestodes, adult, of cattle, sheep, and allied animals, revision of.	
Host, color of, and its relation to parasitism. 1892. p. 265  Parasites (50–52), notes on. p. 558	A4.":4
Parasites (50-52), notes on. p. 558	A4.1.899
- memoran (an ani) manna arre. In account of the contraction of the co	

	Classification no.
Stiles, Charles Wardell, and Hassall, Albert—Continued	
Parasites, notes on: 1902. p. 19  Parasites, notes on: 55, Spinosa ear tick; 56, Boophilus australis;	A4.3:35
57, new host for Strongylus contortus and Cysticercus tenui-	
collis. 1901	A4.4:34
collis. 1901	A4.3:39
Stiles, Charles Wardell, and Tayler, Louise:	
Cestode, adult (Diplogonoporus grandis), of man which may pos-	A 4 9.95
sibly occur in returning American troops. 1902. p. 43 Larval cestode (Sparganum mansoni) of man which may possibly	A4.5:50
occur in returning American troops. 1902. p. 47	A4.3:35
Stillwell and Gladding:	•
Fertilizer samples for analysis, preparation of, notes on. 1893.	 
p. 19 Phosphate, concentrated, notes on analysis of. 1893. p. 18	A7.3:38 A7 2:38
Stipa. See Melica and Stipa.	M1.0.00
Stock:	
Crops and, in Ontario. 1890. p. 484	A27.9:28
Diseases of, in Europe. 1869. p. 65.	A27.9:7
Epizootic aphthæ among; nature, causes, treatment, etc. p. 352. Feeding experiments, significance of (Curtiss). 1899. p. 116	
Food for. See Plants.	
Ontario. 1890. p. 484	A27.9:28
Plants poisonous to—	
preliminary catalogue of (Chesnut). p. 387	A4.1:898
report on (Wilcox). p. 91	A4 1:900
Pure-bred, business of breeding (Craig). p. 416	A4.1:901
Raising in Mississippi. 1869. p. 297*	A27.9:7
Raising of, directory of departments, boards, societies, colleges,	41000
and other organizations in interest of. 1885	A1.8:39
Sales of, 1870. p. 481	A21.8.0
Stock ranges:	
Northern, some poisonous plants of (Chesnut). 1900. p. 305	A1.10:900
Northwestern California, notes on grasses and forage plants and	A 10 9.10
range conditions (Davy). 1902	A19.5:12
Stock yards, Union. See Chicago.	
Stockbridge, H. E. Florida, farmers' institute work accomplished	
in. 1902. p. 17.	A10.3:120
See also Waldron, C. B. Stockholm, dead animals in, disposition of (Winslow). p. 360	A A 1 · 800
Stockman, William B.:	
Climatology of Havana, Cuba, monthly notes on AprJuly,	
SeptOct., Dec., 1901; FebApr., 1902	A29.6:
Meteorological tables and charts, monthly, description of, May-	A29.6:30
Oct., 1902	A28.0.80
1899. p. 194	A29.6:27
Weather of the month, May-Oct., 1902	A29.6:30
Stockmen, national convention of. See Chicago, Ill.	
Stohmann, F. Heat equivalent of nutrients of food; translated by	A10.6:6
Charles Ford Langworthy. 1896. p. 590 Stokes, A. W. Milk, fat in, determination of, by Werner-Smith	110.0.0
method. 1890. p. 158. Stokes, John W. Report as Acting Commissioner of Agriculture,	A7.3:24
Stokes, John W. Report as Acting Commissioner of Agriculture,	411008
1867 Stomach staggers. See Cattle.	A1.1:867
Stomachs of birds, directions for collecting. 1891	A5.4:12
Stomata, strange developments of, on Carya alba, caused by phyl-	
loxera (Owen). 1892. p. 327	A9.7:4
Stone, G. E.:  Botanists at agricultural experiment station, functions of. 1901.	
n. 138	A10.3:99
p. 138  Vegetable physiology in agricultural colleges. 1896. p. 99	A10.3:41

\*By a misprint, this page number appears twice.

Classification no. Stone, Richmond. Road building, national, in United States, his-A22.3:17 torical sketch of. 1895. p. 7..... Stone, Roy: Address of before national road conference, July, 1894. p. 7..... A22.3:10 before Virginia good roads convention, Oct. 18, 1894. p. 14 ... A22.3:11 Addresses on road improvement in Maine, New York, North Carolina, and Illinois. 1897..... A22.4:28Convicts, employment of, in connection with road building..... A22.3:16 Earth roads, hints on their construction and repair. 1894...... A22.3:8 Higbie State aid road bill, remarks at hearing by committee of senate and assembly at Albany, N. Y., Feb. 25, 1897. p. 10... A22.4:28 Illinois Farmers' Institute, letter to, on road improvement. 1897. A22.4:28 ...... A1.10:897 Washington. 1893. p. 13 A10.3:14 Road building in U. S.— Road improvement address on, at Raleigh, N. C., Feb. 5, 1897. p. 19..... A22.4:28 A22.4:14 addresses on. 1894 ..... necessity of Congressional action in. 1902. p. 23 ..... A22.3:25 Road improvement in Maine, New York, North Carolina, and A22.4:28 Illinois, address on. 1897..... Road Inquiry Office, Agriculture Department, work of, for farmer. Road making at agricultural colleges and experiment stations, A1.10:897 letter relative to cooperation of Road Inquiry Office in aid of... A22.2:Ag8 Roads best, for farms and farming districts. 1894. p. 501...... A1.10:894 good; extracts from messages of governors. 1895..... A22.3:14 good, work for new century. 1901. p. 52 ..... A22.3:21 - State laws relating to management of roads— 1888-93 ..... A22.3:1 A22.3:18 1894–95 ..... Wheelmen, American League of, remarks at good-roads banquet A22.4:28 of, at Albany, N. Y., Feb. 11, 1897. p. 15 Wide tires, laws of certain States relating to. 1895..... A22.3:12 See also for reports as Special Agent and Engineer for Road Inquiry, 1893 to 1896; Director of Office of Road Inquiry, 1897, and A22.1: Director of Office of Public Road Inquiries, 1899 ...... Stone, Winthrop Ellsworth: Carbohydrates of wheat, maize, flour, and bread, and action of enzymic ferments upon starches of different origin. 1896..... A10.3:34 Dietary studies at Purdue University in 1895..... A10.3:32 Feeding stuffs, pentaglucoses in, notes on occurrence and quantitative estimation of. 1890. p. 125

Starch, determination of, comparison of methods for. 1894. p. A7.3:43 Stone fruits. See Fruits. Stone roads. See Roads. Stones. See Marble — Semaguir. Storage battery, use of, for electrical recording instruments (Vose) 1899. p. 300. A29.6:27
Storer, Bellamy. Horses, American, in Belgium. 1897. p. 24. A1.2:H78 Storm bulletins..... A29.17: See also Weather Bureau signals. Storm-warning lanterns, substitution of acetylene gas for oil in 

	IMGEX Classification no.
Storm-warning messages (Form 1043C), should [they] be of some	CIMBBIECEMUM MU.
distinctive color to more readily attract attention? (Glenn).	
1899. p. 53	A29.3:24
1899. p. 53 Same (Jennings). 1899. p. 53	A29.3:24
Storm-warning services of Weather Bureau. See Climate and crop	
and storm-warning services of Weather Bureau.	
Storm warnings:	
Forecasts and, how Weather Bureau disseminates (Calvert).	A 00. 1.000
1896. p. xxii	A29.1:896
Oct., 1897-Apr., 1898 (Dunwoody)	A 29 6
May, 1898 (Morrill). p. 195	A29.6:26
May, 1898 (Morrill). `p. 195	A29.6:26
Sept. 1898–Oct., 1902 (Garriott)	<b>A29.6</b> :
Oregon coast, note on (Abbe). 1900. p. 211	A29.6:28
Storm warnings and displays by flag and lantern; are present, best	
that can be devised for Atlantic and Gulf coasts? (Smith).	4.00.0.04
1899. p. 27. Same (McAdie). 1899. p. 29	A29.3:24 A29.3:24
Storm waves:	A29.3.24
Great Lakes and ocean (Abbe). 1895. p. 341	A 29.6:23
Note on (Abbe). 1900. p. 154	A29.6:28
South Carolina and Texas (Alexander). 1900. p. 381	A29.6:28
What is a storm wave? (Kimball). 1901. p. 460	A29.6:29
Storms:	
Approaching, effect of, upon song birds (Linney). 1898. p. 354.	A29.6:26
August 2, 1899, notes on (Abbe). p. 365.	A29.6:27
Benefits and injuries due to, note on (Abbe). 1900. p. 114 Centers in Pacific, notes on (Abbe). 1899. p. 114	A29.0:20 A90 R:97
Cold weather, of India and America (Abbe). 1894. p. 295	A 29 6:21
Distant, indicated by tides at New York (Jones). 1894. p. 372.	
Dust—	
and red rain, notes on (Abbe). 1901. p. 120	A29.6:29
note on (Kimball). 1902. p. 269	A29.6:30
Electric—	400 00
California (Barwick). 1897. p. 539.	A29.6:25
Kansas, notes on (Abbe). 1898. p. 216	A 20. 6.25
Equinoctial, notes on (Abbe). 1900. p. 558.	A 29.6:28
same (Kimball). 1901. p. 508	A29.6:29
same (Kimball). 1901. p. 508	A29.6:25
Forecasts of, commercial importance of, notes on (Abbe). 1900.	
p. 550	A29.6:28
Great storm of Oct. 1896 [1895], in Gulf of California (Abbe).	
1895. p. 379	A29.6:23 A29.6:29
Honolulu to Iowa, notes on (Abbe). 1899. p. 362	A29.6:27
Ice, note on (Abbe). 1900. p. 154	A29.6:28
Local—	
do they follow river valleys? (Abbe). 1899. p. 363	A29.6:27
heavy rainfall in, notes on (Abbe). 1900. p. 207	
in United States during 1890, 1891, and 1892 (Hazen). p. 505.	
monthly report on, July, 1895–Sept., 1897 (Henry)same, in Kansas, Sept. 8, 1895 (Abbe). p. 338	
severe, 1895. p. 245 Springfield, Mo. (Hazen). 1900. p. 201	A29.6:28
violent, of Sept. 21, 1894 (Hazen). p. 369	A29.6:22
west coast of Mexico (Rogers). 1894. p. 510	A29.6:22
Malta during Oct., 1898 (Grout). p. 546	A29.6:26
	A29.6:28
Mountain—	A 00 0.05
note on (Abbe). 1897. p. 307	A29.0:20
peculiar (Struble). 1897. p. 212.	A 20 G 25
North Atlantic, monthly notes on, July, 1891–Dec., 1893	A29.6:
Origin of (Abbe). 1894. p. 512.	A29.6:22
Origin of (Abbe). 1894. p. 512	A29.6:22

Index	(Tegrification no
Storms—Continued	Classification no.
Silent electrical and dust, in Oklahoma, Jan., 1895 (Abbe), p.13.	A29.6:23
Sleet, note on (Abbe). 1900. p. 113	A29.6:28
Sleet and snow, memorable, notes on (Abbe). 1900. p. 548	A29.6:28
South Atlantic (Pinheiro). p. 204.  Texas, study of (Hazen). 1895. p. 54.	A29.3:11 ·
Tornadoes and, severe local, chronological list of. 1896. p. 308.	A29.1:897
same, 1897. p. 301  Track of and weather forecasting (Bigelow). 1897	A29.1:898
Track of and weather forecasting (Bigelow). 1897	A29.3:20
Track of periodic and nonperiodic fluctuations in latitude of	A29.3:111
(Veeder). 1894. p. 185. Tropical, of Gulf of Mexico and Atlantic Ocean in September,	2120.0.11
1895 (Garriott). p. 167 Types of, in January, 1895 (Garriott). p. 9	A29.6:23
Types of, in January, 1895 (Garriott). p. 9	A29.6:23
Violent— in United States—	
1893 p. 317	A29.1:893 <sup>2</sup>
1894 (Hazen). 1895. p. 283	A29.1:894
of March 23, 1893 (Hazen). p. 90	
Wells and, note on (Abbe). 1900. p. 293	A29.6:28 A29.6:21
Year, report on (Garriott). 1899. p. 208.	A1.1:898
same, p. 27	A29.1:898
Yucatan, note on (Abbe). 1900. p. 155.	A29.6:28
See also Baguios — Norther — Northwesters — Ocean storms — Sand blizzard — Thunderstorms — Tornadoes.	
Stout, O. V. P.:	
Irrigation under Great Eastern Canal, Platte County, Nebr.:	
1900. p. 195 1901. p. 299	A10.3:104
Nebraska, duty of water in. 1900. p. 149	A 10.3:119 A 10.3:86
Stover, Arthur P.:	A10.5.60
Irrígation in—	
Arkansas Valley, Colorado. 1902. p. 287	
Grand Valley, Colorado, 1901. 1902. p. 265valley of Bear River, in Utah, 1901. 1902. p. 243	A10.3:119 A10.3:119
Stowe, James G.:	A10.5.118
Animal products in South Africa. p. 512	A4.1:898
Meat in South Africa. p. 512	
Prices in Cape Colony. p. 523	A4.1:898
International aeronautical conference at (Rotch). 1898. p. 158.	A29.6:26
Meteorological balloon ascension at (Rotch), 1901. p. 298	A29.6:29
Stratigraphy and hydrology of Nebraska (Hicks). 1890. p. 71	A15.2:Ar7
Straw or stover: Composition and feeding value of. 1867. p. 374	A 97 Q-5
Proportion of grain to, effect of fertilizers on. 1897. p. 11	
Strawberries:	
Culture of (Hite). p. 139	A1.1:863
Fertilizer requirements of. 1902. p. 17.	A27.9:9 A1 0.140
Resistance of, to frost. 1901. p. 19	A1.9:133
Soils for. 1902. p. 16	A1.9:149
Strawberry crop and frosts, notes on (Abbe). 1899. p. 474	
Strawberry-leaf flea beetle in Indiana (Webster). 1891. p. 317 Strawberry saw-fly, another (Malley). 1889. p. 137	
Strawberry weevil:	A.U. 1.2
Circular relative to (Chittenden). 1897	A9.5:21
Habits and remedies, supplementary notes (Chittenden). 1894.	10 7 7
p. 14. Injuries, notes on, and bibliography (Chittenden). 1898. p. 82. Report of (Chittenden). 1893. p. 167	A9.7:7
Report of (Chittenden). 1893. p. 167	A9.6:10 A9.7:5
Streams:	
Discharge of, during floods (Abbe). 1894. p. 255	A29.6:22
Headwaters of, forests on, preservation of (Read). 1884. p. 27.	A1.7:5
Street, John Phillips. Fertilizers, complete, nitric nitrogen in, Ulsch method in determining. 1892. p. 88.	A7.3:35
	<del></del>

	Classification no.
Street cars, weather forecasts on (Conger). 1902. p. 206	<b>A29.3:31</b>
Street sweepings, fertilizing value of (Ewell). 1898.	A7.3:55
Streptococci; morphology, biology, and pathogenic properties of 28, found in investigation of animal diseases (Moore). 1893. p. 9.	A 4 9.0
Streuli, William. Horgen, Switzerland, cost of hauling farm prod-	
ucts over wagon roads at. p. 12	A 22 4 · 27
ucts over wagon roads at. p. 12. Stripper butter, note on. 1898. p. 24.	A1.9:84
Strohm, John. Conestoga horse, brief history of. p. 175	A1.1:863
Strohmer, —. Sugar beet, nitrates and phosphates in, physio-	
logical functions of. 1879. p. 281.	A1.6:28
Strong, Charles M. Thunderstorms in Ohio during summer of 1892. p. 51	A29.3:9
Strongyle, Egyptian and Japanese (Strongylus subtilis), which may	A20.0.0
possible occur in returning American troops (Stiles). 1902.	
p. 41	A4.3:35
Struble, Joseph. Storms, mountain, peculiar. 1897. p. 212	A29.6:25
Stubble, constituents of (Brown). 1872. p. 311	
Stubbs, Charles E. Horses, demand for and kind of, suited for	A1.5.15
European uses; and present status of horse trade in different	
countries. 1898. p. 55	A1.2:H78
Stubbs, Joseph Edward:	
Education—	A 10, 0,00
modern, what is of most worth in, address on. 1901. p. 32 theory of higher, some recent changes in. 1899. p. 97	A 10.3:99 A 10.3:65
Stubbs, William Carter:	ATO.O.K
Agricultural resources and capabilities of Hawaii. 1901	A10.3:95
Sorghum sugar experiments at Kenner, La.—	
1888. p. 273same, with additional matter. 1888. p. 46	A1.1:888
same, with additional matter. 1888. p. 46	A7.3:20 A7 2.96
Sugar analysis, report on. 1891. p. 76	A7.3:31
See also, as collaborator, Wiley, Harvey Washington.	11110101
Student assistants. See Agriculture Department.	
Study, relation of technical to general course of (Fairchild). 1893.	440040
p. 67. Stupart, R. F.:	A10.3:16
Meteorological service of Canada. 1899. p. 204	A 29 6.27
Rainfall and charts of rainfall. 1902. p. 229.	A29.6:30
Sturtevant, E. Lewis:	
Corn, varieties of. 1899  Deerfoot farm centrifugal dairy. p. 629	A10.3:57
Deerfoot farm centritugal dairy. p. 629	A1.1:880
Styles, George H. Port Carolina, South Australia, earthquakes, clouds, and gales at. 1902. p. 10	A 29, 6:30
Suabian Alps, water supply of. 1875. p. 130.	A27.9:13
Subha Rao, M. B. Rainfall in Madras, India, and frequency of sun	
spots. 1902. p. 438	A29.6:30
Sublette, George B. Address of, before Minnesota good roads con-	A22.3:2
vention, January, 1894. p. 9	A 2.0.2
Sudworth, George Bishop:	
Aborescent flora of U.S., nomenclature of. 1897	A13.3:14
Forest flora, additions to, of North America, and necessary changes	
in nomenclature of important timber species, with notes.	A 1 1.000
p. 325 same, p. 325	
same, p. 325	A13.3:2
Forest nursery, collection of tree seeds and propagation of seed-	
lings. 1900	A13.3:29
lings. 1900 Forest trees of United States, check list of. 1898.	A13.3:17
Sugar: Adultoration of (Wiley and others) 1802 n 633	A7 2.126
Adulteration of (Wiley and others). 1892. p. 633	A7.3:34
Analysis of—	
methods of; notes on (Wiley). 1890. p. 129. notes on (Ross). 1889. p. 179. recommendations for (Ewell). 1895. p. 152.	A7.3:28
notes on (Ross). 1889. p. 179	A7.3:24
recommendations for (Ewell). 1895. p. 152	A1.5:41

inaex	Classification no.
Sugar—Continued	
Analysis of—Continued	
remarks on report of committee on sugar, Association of Official Agricultural Chemists (Wiley). 1888. p. 54	A7.3:19
report on (Stubbs). 1891. p. 76	A7.3:31
same (Hiltner). 1898. p. 87	A7.3:56
some facts relative to (Jungfleisch and Grimbert). 1890. p.	A7.3:28
See also Chemical analysis, methods of — Sugar analysis, com-	
mittee on. As food (Abel). 1899	A1 0.03
Average price and consumption of—	
1895. p. 552	A1.10:895
1897. p. 753	l A1.10:897
Consumption in United States. 1874. p. 47	A27.9:13
Crop and weather, in island of Mauritius, 1880-96 (Abbe). p. 412	A 20 G 26
Crop of world, 1893–94. p. 32	A27.9:32
Cuba, 1870–71. p. 326	A27.9:9
Diffusion and carbonatation of, in Java, extracts from report on (Lucassen). 1885. p. 49	A7.3:8
Estimation of—	
by Felling's solution (Causse). 1890. p. 137.	A7.3:28
by weighing precipitated cuprous oxid as such and as metallic copper, notes on (Knight). 1901. p. 111	A7.3:62
European production, 1877–90. p. 208	A27.9:28
Evaporating apparatus for (Densmore). 1887. p. 57same (Denton). 1887. p. 57	
French production. 1875. p. 115.	A27.9:14
Imports of, 1856-61. No. 5. p. 4	A27.9:1
Industry of United States; cane sugar, beet sugar, sorghum sugar, maple sugar (Wiley). 1885	A7.3:5
Louisiana production, 1874–75. p. 456	A27.9:13
Making in French West Indies. 1873. p. 25	A27.9:11
ANA	A27.9:11
Northern, industry, record of its progress during season of 1883	
(Wiley) Proper mode of making. 1863. No. 3. p. 12. Quick estimation of, by one-tenth copper solution (Politis). 1890.	A7.3:3
Quick estimation of, by one-tenth copper solution (Politis). 1890.	A27.9:1
p. 136	A7.3:28
1894–1898. p. 712	A1.10:898
1895–1899. p. 839	A1.10:899
1896–1900. p. 858 Trade of United States, 1867–68. p. 16	A1.10:900 A27.9:7
World's production. 1886. p. 559	A27.9:24
See also Beet sugar — Cane juices and sirups — Cane-sugar industry — Crops, principal — Des Linges sugar experiment sta-	
tion — Magnolia Station — Maize and sorghum sugars —	
Maple sugar — Pentaglucoses — Sirup — Sorghum sugar —	
Wiley, Harvey Washington. Sugar analysis, committee on, Association of Official Agricultural	
Chemists, report of:	
1888. p. 49 1892. p. 137	A7.3:19
1893. p. 149	A7.3:38
1894. p. 122	A7.3:43
1895. p. 130 1901. p. 157	
Sugar beets:	
Composition of, influence of environment upon (Wiley). 1901 Culture, seed development, manufacture, and statistics of (Wiley).	A7.3:64 A1.9:52
Culture of—	111.0.02
and manufacture of sugar therefrom in France and United	A 1 Q.90
States (McMurtrie). 1880	1 A1.6:28

	Classification n
Sugar beets—Continued	
Culture of—Continued	
and manufacture of beet sugar (Wiley). 1890	A7.3:27
in France and Germany, notes on (Maxwell). 1890. p. 81	
note on. 1867. p. 255	A27.9:5
1879. p. 171	A1.6:28
same, final report on, in New England. 1879. p. 181	A1 6.28
report on (Wiley). 1891.	A1.9:3
report on (Wiley). 1891successful, on alkali soils. 1899. p. 5	A1.9:92
Diseases of, some (Townsend). 1902. p. 90	A1.8:72
England. 1870. p. 484.	A27.9:8
Experiments with—	A 7 0 00
1890 (Wiley) 1891 (Wiley and others)	A7.3:30
1892 (Wiley and Maxwell)	A7.3:33
1893 (Wiley and Maxwell)	A7.3:39
1897 (Wiley)	A7.3:52
Feeding value of. 1898. p. 15	A1.9:84
Grown in various States, analyses of (Wiley)	A1.2:B39 <sup>8</sup>
same, p. 135 Industry in United States. 1898. p. 8.	A1.2:B39 <sup>1</sup>
Industry in United States. 1898. p. 8.	A1.9:79
Introduction of (Fredericksen). 1879. p. 275	A1.6:28
Literature of, exclusive of works in foreign languages (Barnett).	A17.3:16
Nitrates and phosphates in, physiological functions of (Strohmer).	A17.5.10
1879. p. 281	A1.6:28
Production of, in the Netherlands, 1866–82. No. 9. p. 46	A27.9:22
Sweden (Andrews). 1872. p. 133	A27.9:10
Wisconsin, experiments in (Woll). 1891. p. 90	A7.3:33
See also Beet sugar—Schuyler, Nebr., Sugar-beet Experiment	
Station. Sugar-beet seed, production and testing (Pieters). 1902. p. 101	A 1 Q.79
Sugar-beet webworm:	A1.6.72
Completed life history of (Howard). 1894. p. 369	A9.7:6
Report of. 1893. p. 320.	A9.7:5
Sugar cane:	
Analysis of—	
at Magnolia Station, Lawrence, La. 1888. p. 29	
with table for calculation of analyses (Crampton). p. 31	A7.3:15
same, at Fort Scott, Kans. (Crampton). 1887. p. 15	A7.3:17
Cultivation of—	117.0.0
character and composition of soils best adapted to (Richard-	
son). 1886. p. 60	A7.3:10
in India. 1875. p. 135	A27.9:13
Deterioration of—	107.0
1866. p. 341	A27.9:4
1872. (Watts). p. 211 Diffusion in its application to (Wiley). 1884	A27.8:10
Diffusion process as applied to, in Louisiana (Sieg). p. 40	A1.1:884
same. 1884. p. 18	A7.3:2
same. 1884. p. 18 Insects in New South Wales (Koebele). 1892. p. 385	A9.7:4
insects injurious to—	
in Brazil, preliminary report of observations upon (Branner).	40'04
1884. p. 63	A9.3:4
Iniogs and simps filtration of brown coul and wood wher in	A1.0:50
Juices and sirups, filtration of, brown coal and wood char in (Thompson). p. 268 same. p. 99	A1.1:887
same. p. 99.	A7.3:17
Manufacture of table sirups from (Wiley). 1902	A7.3:70
See also Sorghum.	
Sugar-cane beetle injuring corn, note on:	10010
1886. p. 32 1888. (Howard). p. 11	A9.3:1Z
Sugar-cane borer:	A8.7.1
Java (Zehntner). 1898. p. 32	A9.6:10

RNGCX	Classification no.
Sugar-cane borer—Continued	
Louisiana, life history of (Morgan). 1902. p. 128. Sandwich Islands. 1888. p. 185	A10.3:115
Sandwich Islands. 1888. p. 185	A9.7:1
Sugar chemists:  Committee of French Association of, potash, estimation of, abstract	
of report on n 43	A7.3:16
French Association of, 1887, nitrogen in fertilizers, report of com-	
mittee on. p. 54. Sugar corn, chemical analysis of (McMurtrie). 1875. p. 176	
Sugar corn, chemical analysis of (McMurtrie). 1875. p. 176	A27.9:13
Sugar determinations, partial summary of, from sorgho canes and cornstalks. 1880. No. 25. p. 23	
Same. No. 27. p. 23.	A27.9:18
Sugar factories, cost of, estimates of (Hughes). p. 252	A1.1:887
Same, p. 73. Sugar-producing plants, analysis of. 1888.	A7.3:17
Sugar-producing plants, analysis of. 1888	A7.3:18
See also Sugar and references thereunder. Sugar refinery. See Standard Sugar Refinery, Alvarado, Cal.	
Sugar region, Weather Bureau service, instructions governing (Berry).	A29.12:C81
Sugar stations of Weather Bureau, instructions and code for encipher-	
ing reports at. 1892	A29.12:C82
Sugarhouse machinery for sale by Agriculture Department, July 1,	A1.2:Su32
1895 Sugar-yielding plants, "diffusion process" for extracting saccharine	A1.2:8u3
matter from. 1869. p. 457	A27.9:6
matter from. 1869. p. 457 Suint, utilization of. 1872. p. 234	A27.9:10
Sulphur:	
Loss of, in preparing ash of plants, report on (Fraps). 1901. p. 98.	A7.3:62
Metabolism of, in human organism, experiments on (Sherman).	A10.3:121
Use of, for blight or mildew on peaches and roses. 1867. p. 60	A27.9:5
Sulphur rains, notes on (Abbe). 1898. p. 115	A29.6:26
Sulphur wash. See San Jose scale.	
Sulphuric acid. See Cane-sugar manufactories. Sulphurous acid, use of:	
In manufacture of alcohol (McMurtrie). 1873. p. 32	A27.9:11
In purifying the diffusion juices of sugar cane and sorghum	
(Wiley)	A7.3:8
Sulphurous oxide, effect of, on vegetation (McMurtrie). 1873. p. 32.	A27.9:11
Sumac: American—	
importations of. 1869. p. 377*	A27.9:7
report on p. 230	A 1.1:869
Culture of, in Sicily (McMurtrie). 1880	A1.6:26
Sumatra, tobacco in, cultivation of (Mulder). 1898	A1.8:58
Sumatra tobacco, growing, under shade in Connecticut Valley (Whitney). 1902	A26.3:20
Summer:	1110,10,110
Cold, of 1816 (Abbe). p. 299.	A29.6:23
Indian (Matthews). 1902. pp. 19, 69	
same (Wilson). 1902. p. 440. Summerville, S. C., tea garden at, Government, condition, and pros-	A29.6:30
pects of (Saunders). p. 28	A1.1:881-2
See Pinehurst Experimental Tea Garden.	,
Sun:	
Cosmical relations manifested in simultaneous disturbances of,	
aurora, and terrestrial magnetic field (Lemström). 1895. p. 492	A29.3:11 <sup>2</sup>
Electrodynamic radiation from, endeavor to discover (Trow-	**************************************
bridge). 1896. p. 409	A29.6:24
Green-colored, of Sept. 9 and 10, 1883 (Abbe). p. 173	A29.6:23
Periodic terms in meteorology due to rotation of, on its axis (Bigelow). 1895. p. 500	A29.3:11 <sup>2</sup>
Total eclipse of, May 28, 1900—	A45.5:11
meteorological observations made to determine probable state	
of sky at several stations along path of (Bigelow). 1897.	
p. 394	A29.6:25

•	<b>W 3</b> a
	Index Classification no.
Sun—Continued	
Total eclipse of, May 28, 1900—Continued	
notes on (Abbe). p. 110	A29.6:28
probable state of sky along path of (Bigelow). 1899	A29.3:27
same (Bigelow). p. 404 Sun printing, Solandi (Halsted). 1894. p. 93	A29.6:26
Sun-spot cycle, relation of, to meteorology (Abbot). 1902. p. 178.	A10.3:20 A29.6:30
Sun-spot cycle, relation of, to meteorology (Abbot). 1902. p. 1781. Sun-spot period and temperature and rainfall of Jamaica (Hall).	A28.0.30
1901. p. 503	A29.6:29
Sun spots:	1120.0.20
Frequency of, at Madras, India (Subha Rao). 1902. p. 438	A29.6:30
Meteorology and, notes on (Abbe), 1901, p. 263	A 29.6:29
Relative frequency of 1749-1900 (Abba) n 505	A 29 R 20
Relative numbers, Wolf's, revision of (Wolfer). 1902. p. 171	A29.6:30
Report on (Lyons). 1897. p. 144	A29.6:27
Weather and, connection between (Bigelow). 1895. p. 91	
same (Kimball). 1901. p. 248	A29.6:29
Sunflower plant; its cultivation, composition, and uses (Wiley).	A7.3:60
Sunflowers, cultivation of, for their seed and oil. 1898. p. 14	A1.9:78
Sunshine:	11.0.70
Hourly results from self-registers for recording (Abbe). 1897.	
p. 252	A29.6:25
Local time of sunrise and sunset for north latitudes, from 25° to	
49°, inclusive	A29.2:Su7 <sup>2</sup>
Measurement of—	
and preliminary examination of Angström's pyrheliometer	
(Marvin). 1901. p. 454	A29.6:29
use of selenium for (Dorsey). 1899. p. 99.	A29.6:27
Monthly amounts of possible sunshine for hours ending shortly after sunrise and sunset. 1894	A29.2:Su71
Monthly notes on, Jan., 1894—Oct., 1902	
Normal annual (Henry). 1898. p. 108.	A29.6:26
Note on (Abbe). 1895. p. 426.	A29.6:23
Recorders, care and management of (Marvin)	A29.11:G <sup>2</sup>
Southern California agricultural experiment farm, near Pomona,	
Cal. (Henry). 1896. p. 237	A29.6:24
Temperatures in, notes on (Abbe). 1899. p. 310	A29.6:27
See also Climatic charts.	
Sunshine recorder:	A 00 10 0 7
Glass electrical, instructions for using	A29.12:Su7 A29.6:25
Sunstroke in California and Arizona (Phillips). 1896. p. 454	A29.6:24
Sunstroke weather of August, 1896 (Phillips). p. 409.	
Supan, Alexander. Rainfall, distribution of. p. 220.	
Superstitions, meteorological (Abbe). 1898. p. 216	
Surface temperatures and North Atlantic currents (Hautreux).	_
1894. p. 192	A29.3:11 <sup>1</sup>
Surgical operations on cattle (Dickson and Lowe). p. 301	A4.2:C29 <sup>2</sup>
Surplus, American, and foreign trade. 1889. p. 159	A27.9:27
Surra: And allied trypanosomatic diseases, bibliography of (Hassall).	İ
n 161	A41.901
p. 161same, p. 131	A4.3:42
Emergency report on (Salmon and Stiles). p. 41.	A4.1:901
same	A4.3:42
same.  See also Nagana — Mal de caderas — Trypanosomiasis.	
Suspended clay. See Clay.	
Svalof, Sweden, station for plant breeding at (Fairchild). 1901.	1 10 0 10
Svalöf, Sweden, station for plant breeding at (Fairchild). 1901. p. 814. Swaim, James, Franklin kite club and (Abbe). 1897. p. 165	A10.6:13
Swalm, James, Franklin kite club and (Abbe). 1897. p. 165	A29.6:25
Swalm, Albert W.:  Bones and bone ash, export of, from Uruguay. p. 519	A A 1.000
Cattle, disease among in Timonov in 985	A4 1.800
Swamp and overflowed lands in California, reclamation of n. 179	A1.1:872
Cattle, disease among, in Uruguay. p. 385.  Swamp and overflowed lands in California, reclamation of. p. 179.  Swamp-land reclamation in California. 1872. p. 18.	A27.9:10
Swamp soils. See Soils.	1

Index	Classification no.
Swank, James Moore. Agriculture Department, history and objects.	
1872 Swartz system of butter making in Sweden (Andrews). 1876. p. 198.	A1.8:7
Sweden:	
Agriculture in, statistics of. 1873. p. 259.	A27.9:11
Butter making in, Swartz system of (Andrews). 1876. p. 198 Cooperative dairies in (Salviate). 1872. p. 452	A27.9:14
Crops in—	A27.9:10
report on. 1889. p. 538	A27.9:27
report on. 1889. p. 538. rotation of (Andrews). 1873. p. 363	A27.9:11
Hog cholera in. p. 159 same, p. 168	A4.1:887-8 A1 1:888
Insects of, notes on (Schöyen). 1897. p. 79	A9.6:9
Markets for American products in	A12.3:8
Milk flour in. p. 610	A4.1:901 A27 9:10
See also Svalöf.	1127.0.10
Sweet Cassava. See Cassava, sweet.	
Sweet potato: As starch producer. 1899. p. 27	A1 9:87
Culture and uses (Duggar)	A1.9:26
Culture of, at North, and modes of preserving through winter	
(Thompson). p. 220 Report on (Nesbit)	A1.1:862
Sweet-potato black rot (Halsted and Fairchild). 1891. p. 1	A28.5:7
Sweet-potato saw-fly:	
New (Marlatt). 1892. p. 24.	A9.7:5 A9.7:1
Report on. 1888. p. 43	
1898. p. 308.	A29.6:26
Sweetser, William S.:	A7.3:56
Food adulteration, report on. 1898. p. 78.  Nitrogen determination, by Kjeldahl method, distilling with and	A7.5:00
without potassium sulphid. 1896. p. 25	A7.3:49
See also, as joint author, Bigelow, Willard Dell.	
Sweetwater River, Cal., problems of water storage on torrential streams of southern California, as typified by (Schuyler).	
1901. p. 353	A10.3:100
Swells. See Vegetables.	
Swendsen, George L.: Irrigation under canals from Logan River. 1902. p. 179	A10.3:104
Logan and Richmond canals in Utah, duty of water under. 1900.	
p. 211	A10.3:86
Swenson, Magnus:  Letters patent granted to, in process of making sugar. p. 242	A1.1:887
same. p. 61	A7.3:17
same. p. 61. Sorghum sugar, experiments at Fort Scott. p. 213.	
same. p. 5	A7.3:17
Address on (Curtis). 1883. p 148.	A1.7:2
Breeding—	A 1 7.0
address on (Stetson). 1883. p. 160	A1.7:2 A27.9:23
experiments in (Gurler). 1883. p. 155	A1.7:2
organization of. p. 423 Crossing improved breeds of, with common hogs of Florida	A1.1:872
(Furnas). 1895.	A4.4:4
Diseases of—	
epidemic—	A A 1-000 00
report on (Bolton). p. 135	A4.1:889-90 A4.1:889-90
United States board of inquiry concerning, report of	
(Shakespeare and Burrill). 1891. p. 129infectious, additional investigations concerning. 1894	A4.1:889-90
infectious, additional investigations concerning. 1894inoculation as a preventive of. p. 58	A4.5:0 A1.1:889
same. p. 16	A4 1:889-90
investigation of, etc	A1.6:12

	Classification no.
Swine—Continued	
Diseases of—Continued	
report on. p. 382	A1.1:877
reports from inspectors and correspondents. p. 375	A4.1:889-90
scientific investigations. 1890. p. 93	A1.1:890
same. p. 81	A4.1:889-90
special report, no. 12, review of (McGehee). 1879. p. 89	A1.6:22
Epizootics among (Watts). 1872. p. 214	A27.9:10
Exportation of, from Boston, prohibition of. 1902	A4.5:100
Fecundity of. 1899. p. 23	A1.9:87
Flukes and tapeworms of—	44030
bibliography (Hassall). 1898. p. 145	A4.3:19
compendium, arranged according to their hosts (Hassall).	1.4.0-10
1898. p. 137	A4.3:19
report on, with special reference to inspection of meats	A / 9.10
(Stiles). 1898. p. 11.	A4.3:19
Imported into United States, regulations for inspection and	
quarantine of—	A 4 5.50
Dec. 28, 1899	A4.0:00 A4.5:50
Jan. 27, 1900, modification June 1, 1900, amendment	
Oct. 20, 1900, amendment	
Nov. 10, 1900, amendment.	A4 5·70
without quarantine. 1895. p. 29	
Kidney worm of, our present knowledge of (Tayler). p. 612	A4 1-890
Losses of by disease. 1886. p. 546	A27.9-24
Losses of, by disease. 1886. p. 546 Missouri, industry, and annual loss by disease (Bradley). p. 418.	A4.1:885
Nonspecific disease among, outbreak of (Moore). p. 219	A4.1:895_R
Quarantine of, in New England States. 1902	A4.5:99
Rearing and feeding in United States (Morrow). p. 405	A4.1:887-8
Tuberculosis in; nature of disease, with report of three cases	
(Moore and Dawson). p. 207	A4.1:895-6
White Chester breed of (Morris). p. 475	A1.1:865
See also Animals — Cattle orders — Farm animals — Hog chol-	
era — Live stock — Sows — Swine plague.	
Swine Breeders' Associations, list of, with officers:	
1898. p. 615. 1899. p. 696.	A1.10:898
1899. p. 696.	A1.10:899
1900. p. 650.	
1901. p. 626	A1.10:901
Swine fever, report on (Law). p. 420.	A1.1:879
See also Swine plague.	
Swine plague:	44.0.40
Cass County, Nebraska (Hines). 1879. p. 177.	A1.6:12
Cause and prevention of (Smith). 1891.	A4.2:Sw5
Florida (McGehee). 1880. p. 94.	A1.6:22
(Hog cholera), investigation of (Salmon)—	A 1 1-004
1884. p. 258	A.1.1:884
same, with additional matter, p. 221	
1885. p. 476. same, p. 184	
See also Hog cholera.	A7.1.000
	A 1 G-99
Illinois (Detmers). 1880. p. 13	A1 R-19
same (Bitting). p. 199	A1.0.12 A4 1.807
(Infectious pneumonia) investigation of—	47.1.001
1886 (preliminary). p. 659	A1.1.888
same, p. 76	A4.1:888
1887. p. 491	A1.1:887
same, p. 86	A4.1:887-8
See also Salmon, Daniel Elmer.	
Investigation of, in Indiana (Voyles), p. 421	A1.1:878
Iowa (Dunlap). 1879. p. 135	A1.6:12
Iowa (Dunlap). 1879. p. 135 same (De Schweinitz). p. 501	A4.1:899
Ithaca, N. Y. (Law)—	-
1879. p. 56	A1.6:12
1880. p. 68	
-	

Index ,	Classification no.
Swine plague—Continued	Classification no.
Ithaca, N. Y. (Law)—Continued	
1881. p. 81.  Jefferson County, Mo. (McNutt). 1879. p. 173	A1.6:34 A1.6:12
Nebraska, p. 434	A4.1:885
Nebraska. p. 434 North Carolina (Salmon). 1879. p. 123	A1.6:12
Ottawa, Ill. (Dyar). 1879. p. 156	A1.6:12
Prevention of. p.148	
Report on—	
1878 (Detmers). p. 321 1879. p. 365.	Al.1:878
1879 (Detmers). p. 19	A1.6:12
1880. p. 527.	A1.1:880
1880 (Detmers). p. 153 1880 (Law). p. 455	A1.6:34 A1.1:880
1881. p. 316.	A1.1:881-2
Serum treatment for (De Schweinitz). p. 235	
Southwest, character of (Thornton). 1879. p. 84	A4.3:23 A1.6:22
Variability of infectious diseases as illustrated by (Smith and	
Moore). 1894. p. 81	A4.3:6
Virginia (Payne). 1879. p. 165 See also Hog cholera — Salmon, Daniel Elmer — Swine fever.	A1.6:12
Swine plague bacteria:	
Experiments on production of immunity in rabbits and guineapigs with reference to hog-cholera and (Smith and Moore).	
1894. p. 41.	A4.3:6
What becomes of hog-cholera and swine-plague bacteria when	
injected in small numbers into subcutaneous tissues of pigs? (Moore). 1894. p. 103	A4 3.8
Swingle, Walter Tennyson:	114.0.0
Bordeaux mixture—	A 90 F -
improved method of making. 1891. p. 365its chemistry, physical properties, and toxic effects on fungi	A28.5:7
and alger. 1896	A28.3:9
Central American coffee disease, danger of introducing, into Hawaii. 1898	A28.4:16
Hawaii. 1898. Date palm and its culture. 1900. p. 453.	A1.10:900
Grain smuts—	
how caused and how to prevent. 1898	A1.9:75   A1.10:894
Peronosporacese, some in herbarium of Vegetable Pathology	
Division. 1891. p. 109. See also, as joint author, Kellerman, W. A.	1 A28.5:7
Swingle, Walter Tennyson, and Fairchild, David Grandison. Bur,	
or globe, artichokes, circular on. 1899	A6.4:22
Swingle, Walter Tennyson, and Webber, Herbert John: Citrous fruits, principal diseases of, in Florida. 1896	A28 3.8
Hybrids and their utilization in plant breeding. 1897. p. 383	A1.10:897
Swinton, A. H.:	
Insect vivaria, how to be lighted? 1890. p. 18	A8.1:3
Vanessa antiopa, stridulation in. 1889. p. 307	A9.7:1
Switzerland: Agricultural investigation in (Grete). 1896. p. 681	
Agriculture of 1873. p. 568	A27.9:11
Agriculture of. 1873. p. 568  American horses in (Gifford). p. 503.	A4.1:900
Farm stock in. 1866. p. 430	A27.9:4 A4.1:898
See also Horgen—St. Gall.	44.4.4000
Symons, George James:	100 0-110
England, meteorological literature of, 1337–1699. 1895. p. 338. Thunderstorms, barometric oscillations during; and use of bron-	<b>A29.3:112</b> 
tometer, an instrument designed to facilitate their study.	100 5 5
1901. p. 463. Wind, effect of, on catch of rainfall. 1899. p. 454.	A29.6:29 A29.6:27
THE THE PARTY OF THE PROPERTY OF THE PARTY O	,

	Classification no.
Symons, George James, short biography of. 1900. p. 68 Syndicates, agricultural, of France. 1889. p. 523	A29.6:28
Syndicates, agricultural, of France. 1889. p. 523	A27.9:27
Syntometal ephals, preparatory stages of (Dyar). 1880. p. 3001111 Syntometal ephals, preparatory stages of (Dyar). 1880. p. 5	A9.7:1
Syphus-fly, corn-feeding, report on. 1888. p. 5 Syracuse, N. Y., State fair, cattle for exhibition at, order providing	
for, June 26, 1902  Systematic plant introduction. See Plant introduction.	A4.5:95
Tabanidæ (gadflies) and a very simple means of destroying them	
(Porchinski), 1899, p. 25	A9.6:20
Table and kitchen wastes, importance of loss of. p. 25	A1.9:69
Table sirups, manufacture of, from sugar cane (Wiley). 1902 Tachinidæ of America north of Mexico, revision of (Coquillett). 1897.	A7.3:70 A9.8:7
Tæniasis, nodular, in fowls (Moore). 1895	
Taft, L. R.:	A C 9.11
Irrigation for garden and greenhouse. 1895. p. 233	A0.5:11 A1.10:895
Apple scab, remedies for, experiments with. 1890. p. 30	
p. 35.	A10.3:120
Talman, Charles Fitzhugh. People of Mars. 1900. p. 537	A29.0:28
Fog studies on (McAdie). pp. 283, 492	A29.6:28
same, pp. 24, 61, 104	A29.6:29
Meteorological station, report on operation of, for Sept., 1897 (Hammon). p. 397	∆ 90 <i>R •</i> 95
Observations, value of (Hammon). 1899. p. 56.	A29.3:24
same (Pague), 1899, p. 63	A 29.3:24
Weather Bureau instruments at, report on location and elevation of (Hammon). 1898. p. 494.	A 90 R · 95
Weather Bureau station on, notes on (Abbe). 1897. p. 493	A29.6:25
Tamari, Kizo. Japan, rice and silk culture, and agriculture educa-	
tion in. 1885. p. 187	A1.7:9
Tampico, Mexico, northers of (Abbe). 1893. p. 363.	A29.6:21
Tampico, Mexico, northers of (Abbe). 1893. p. 363.  Tanana Valley, Alaska, notes on (Green). p. 309	A10.1 2:901
Tan-bark beetle, destructive, report on (Burgess). 1899. p. 107  Tannery refuse, utilization of, in France. 1876. p. 280	A9.6:20 A27.9:14
Tannin, committee on, of Association of Official Agricultural Chem-	A27.8.14
ists, report of:	A T O 40
1894. p. 194 1895. p. 154	A7.3:43
1896. p. 118	A7.3:49
1897. p. 143	A7.3:51
1898. p. 100 1900. p. 127	
1901. p. 128	A7.3:67
Tannin, determining, by hide power, notes on points of error in shake	A 77 0 40
method of (Yocum). 1894. p. 204	A7.3:43 A7.3:51
Tanning materials:	117.0.01
American (McMurtrie). 1876. p. 459.	
Mesquite tree as (McMurtrie). 1873. p. 31	A27.9:11 A7 4.8
Tape-worm disease of sheep of Western plains (Curtice). p. 167	A4.1:887-8
Tapeworms. See Cestodes — Flukes and tapeworms — Poultry.	
Tarantulas, report on. 1894. p. 260	A9.7:7
Foreign, on agricultural products. 1891. p. 538	A27.9:29
Rates on cereals and flour in European countries. 1894. p. 323.	A27.9:32
Reciprocity treaties and, French. 1892. p. 181	A27.9:30 A27 9:28
Foreign, on agricultural products. 1891. p. 538. Rates on cereals and flour in European countries. 1894. p. 323. Reciprocity treaties and, French. 1892. p. 181. South America. 1890. p. 460. Taro, root rot of (Sedgwick). 1902.	A12.9:2
Tasajo, or jerked beet, manufacture and exportation of by River	
Plata countries. p. 399 Tasmania, insects of, notes on some injurious and beneficial (Webster).	A4.1:899
1889. p. 361	
See also Australasia.	
Tasmanian Coccinellidæ, notes on (Thompson). 1893 p. 11	<b>AA. 1:0</b>

	Classification no.
Taveau, Augustine L. Farming, modern, in America. p. 280	A1.1:874
Tax, dog, in England and Scotland. 1867. p. 381	
Highway, comparative results of labor and money systems. 1894. same, revised.	A22.4:16 A22.4:24
Local, as affecting farms. 1897	A27.9:35
Tayler, Louise. Kidney worm of swine, our present knowledge of. p. 612.	A4.1:899
See also, as joint author, Stiles, Charles Wardell.  Taylor, Charles W. Cattle and sheep, raising and feeding more,	
importance of. p. 249	A1.1:864
Taylor, F. W. See, as joint author, Bonsteel, Jay Allan. Taylor, H. M.:	
Cattle interests, condition of, west of Mississippi River. p. 306	A4.1:887-8 A4.1:886
Cattle-range industry. p. 105  Range industry, importance of. p. 293	A4.1:885
Taylor, Nathaniel R.:  Atmospheric pressure, high and low. 1897. p. 351	A29.6:25
Weather observer. What a weather observer should know. 1898. p. 543	A29.6:26
Taylor, Thomas:	
Cranberry culture in New Jersey. p. 569.  Fibrine and bacteria	A18.2:F44
Fungoid diseases of plants. p. 110	A1.1:871
scopic observations.  Lard, pure and fictitious, methods of distinguishing between.	A1.8:34
1893	A18.5:3
Microscopic investigation along agricultural lines, monthly, May, 1872, to Dec., 1876	A27.9:
[The more important articles are indexed under their various subjects.]	
Mushrooms— eight edible and twelve poisonous, of U.S., with directions	
for culture and culinary preparation of edible species.	A1.1:890
same, revised four edible, of U.S. 1893. p. 7	A18.5:2
twelve edible, of U.S., with directions for identification and	A18.5:3
preparation as food. p. 100same, reprinted with an appendix	A1.1:885 A18.5:1
Napthaline as an insecticide, etc., its effect on seeds, plants, and animals. 1883.	A18.2:N16
See also, for reports as Microscopist, Agriculture Department,	
1872–1894 Taylor, W. Potato disease, cause and cure of. 1869. p. 64	A18.1: A27.9:7
Taylor, William Alton: Fruit industry, and substitution of domestic for foreign-grown	
fruits. 1897. p. 305	A1.10:897
varieties of apples suitable for export trade. 1898	A21.3:7
Fruit varieties, little-known, considered worthy of wider dissemination. 1901. p. 381	A1.10:901
Refrigeration, influence of, on fruit industry. p. 561	A1.10:900 A1.10:895
Small-fruit culture for market. 1895. p. 283. See also, for reports as Assistant Pomologist, 1893, Acting Pomolo-	A00.1.
gist, 1900, Pomology Division, Agriculture Department Tea:	A20.1:
Aboriginal North American. See Ilex cassine.  Adulteration of (Spencer). 1892. p. 875	A7.3:13 <sup>†</sup>
California culture, 1870, p. 38	
Consumption of, in United States, per capita of population— 1870–1895. p. 552 1896. p. 595	A1.10:895
1896. p. 595	A1.10:896 A1.10:898
1898. p. 723	A27.9:11

Tea—Continued	Classification 1
Culture of—	
experiment in, report on tea gardens of Dr. Charles U. Shepard,	41447
Pinehurst, S. C. (Saunders). 1897. experiment in South Carolina (Shepard). 1899	A14.4:1
in United States. p. 235	A1.1:869
probable American industry (Saunders). 1879	A1.6:18
Japan, culture. 1872. p. 286	A27.9:10
Raising, at Pinehurst Experimental Tea Garden, near Summer-	A27.9:7
ville, S. C., special report on. p. 627	A1.1:892
See also Chinese tea plant.	
Tea garden, Government, at Summerville, S. C., condition and	4 1 1 001 0
prospects of (Saunders). p. 28	A1.1:881-2
Technical education (Hall). 1894. p. 67	A10.3:20
Technical schools, mechanical drawing in (Flather). 1894. p. 81	A10.3:20
Teele, R. P. Irrigation investigations, 1901, summary of results of.	1400440
Toin M wan Phina region regimen of high water phanamena	A10.3:119
Tein, M. von. Rhine region, regimen of; high-water phenomena and their prediction. 1894. p. 117	A29.3:11 <sup>1</sup>
Teisserenc de Bort, Leon. Atmosphere, studies on, at Trappes,	
France. 1901. p. 20	A29.6:29
Telegraph:	A 90, 9.91
Weather service and (Robinson). 1902. p. 145	A29.5:31 A29.6:26
See also Seacoast telegraph line — Weather telegraphy — Wire-	1120.0.20
less telegraphy.	
Telephone and kite, note on (Abbe). 1898. p. 366	A29.6:26
Telephone kite (Abbe). 1898. p. 257	A29.6:26
Air, monthly notes on, July, 1891–Oct., 1902	A29.6:
Atmosphere, average (Abbe). 1898. p. 415	A29.6:27
Atmospheric, during month of July, 1895 (Phillips). p. 253	
Average, of upper strata, notes on (Abbe). 1901. p. 177	A29.6:29 A29.6:27
Baltimore, Md., study of (Walz). 1899. p. 293	A 29. 6:27 A 29. 6:26
Cape Nome, note on (Abbe). 1900. p. 212.	A29.6:28
Clothing and, report on (Phillips). 1897. p. 200.	A29.6:25
Comparison of, with magnetic horizontal force (Bigelow)— 1894. pp. 415, 460, 504	A 90 <i>a</i> .99
1895. p. 7	A29.6:22 A29.6:23
Control of scale insects by (Marlatt). 1899. p. 73	A9.6:20
Deep lakes, notes on (Abbe). 1901. p. 71.	A29.6:29
Diurnal range of, variation of, with latitude and locality (Bigelow).	
1902. p. 134 Duluth, Minn. (Richardson). p. 463	A29.6:30 A29.6:27
Evaporation and, notes on (Abbe). 1898. p. 213	A29.6:26
Extremes of, safe for perishable goods. 1900. p. 741	A1.10:900
Forest clearing and cultivation, effect upon (Fulton). 1899. p. 89.	
same (Salisbury). 1899. p. 91. Homogeneity and uniformity of, at Weather Bureau stations,	A29.3:24
notes on (Abbe), 1897, p. 249	A29,6:25
Hourly results from self-registers for recording (Abbe). 1897.	
p. 252	A29.6:25
Influence of, on process of germination (Detmer). 1895. p. 405. Injurious, protection of food products from (Williams). 1901	A29.3:11 - A1 Q.195
Injurious to food products in storage and during transportation	
(Williams)	A29.3:13
(Williams)  Jamaica (Hall). 1901. p. 503  Low, cause of, for August, 1895 (Abbe). p. 296	A29.6:29
May, and of the year, 1790–1888 (Abbe). p. 216.	AZ9.0:Z3 A29 R+99
Mersivan, Turkey (Abbe), 1897, p. 245	A29.6:25
Minimum, abstract of comparison of, recorded at U.S. Weather	, <del></del>
Bureau and Forest Park meteorological observatories, St.	A 00. 0.00
Louis, Mo., 1891 (Hammon and Duenckel). p. 12	A29.6:30
* By a misprint, this page number appears twice.	

Index	Classification no.
Temperature—Continued	piestucesion no.
Montana, sudden changes in, note on (Abbe). 1900. pp. 115, 161.	
Monthly statement of	A29.6:
(Henry), 1902, p. 600	A29.6:29
November and December, 1896 (Hazen). 1897. p. 458	A29.6:24
Probable, forecasts of (Cline). 1899. p. 166.	A29.3:24
Reduction of (Morrill). 1897. p. 572	A29.6:28
San Juan, Porto Rico, report on (Phillips). 1899. p. 319	A29.1:898
Sensible, or curve of comfort (Abbe)—	A 90 C.99
1895. p. 93	<sup>1</sup> A29.6:23 A29.6:26
1899. p. 18	A29.6:27
Should reports of rainfall and, be telegraphed from voluntary	
stations? (Marbury). 1899. p. 108	AZ8.5:24
"slightly warmer" or "slightly cooler" be credited? (Cox).	
1902. p. 127	A29.3:31
Summer and winter, relations between, notes on (Abbe). p. 557. Sunshine, notes on (Abbe). 1899. p. 310	A29.6:28   A29.6:27
Thompson Windham Co. Conn. observations 1859_01 (Larned)	1
p. 364	A29.6:21
Variations of, of free air at great attitudes (Abbe). 1902. p. 316. Vertical gradients of (Frankenfield). 1898	A29.6:30
same (Abbe). 1899. p. 112	⊢ <b>A 2</b> 9.6:27
Water in wells, notes on (Kimball). 1901. p. 510	A29.6:29
Wind and, notes on (Abbe). 1901. p. 218	A29.6:29
tions—Soils—Thermometers—Warm waves.	
Temple, O. P., address of, before Association of American Agricul-	
tural Colleges and Experiment Stations, at 2d annual convention. 1889. p. 15	   A 10 K 1
Ten Broeck, H. H.:	
Aurora, remarkable, at Braidentown, Fla., Nov. 18, 1899. p. 582.	A29.6:27
Auroral-lunar halo display, report of. 1901. p. 551	A29.6:29   A20.6:28
Tennessee:	A29.0.20
Agricultural resources of. 1872. p. 201	A27.9:10
Cattle quarantine of counties in—	A 4 5 . 7
Aug. 16, 1897	
Dec. 20, 1898. p. 3	A4.5:25-29
Dec. 19, 1899. p. 7	
Dec. 14, 1900. p. 8 Jan. 11, 1902. p. 9	
Dec. 27, 1902. p. 9	A4.5:101
Cattle trade and allied industries of (Perry). p. 125	A4.1:886
Cotton in. 1866. p. 330 East, botanical explorations in (Parry). 1870. p. 221	A27.9:4 A27.9:8
Farm resources and products of. 1868. p. 122	A27.9:6
Live-stock interests in (Cockrill). 1883. p. 225	A1.7:2
Potato raising in (Callender). p. 657	
Sheep husbandry in. 1878.	A1.2:Sh3
Tornadoes in (Emery). 1900. p. 499	A29.6:28
Wheat culture in. 1875. p. 399.  See also Erwin — Montgomery County.	A27.9:13
Tennessee, University of:	
Dietary studies at, in 1895 (Wait)same, comments on (Atwater and Woods). p. 33	A10.3:29
Experiments on (Atwater and Woods). p. 33 Experiments on effect of muscular work upon digestibility of food	A10.3:29
and metabolism of nitrogen, conducted at, 1897–1899 (Wait).	
1901	A10.3:89
Nutrition investigations at, 1896 and 1897 (Wait)	
Tenthredinidæ. See Nematinæ.	44//

	Classification no.
Terne, Bruno: Fertilizers, mixed, nitrogen in, availability of. 1893. p. 40 Potash, determination of, sources of errors in. 1891. p. 150 Terra del Fuego, meteorological station in, notes on (Abbe). 1897.	A7.3:38 A7.3:31
p. 493. Terrell, J. J. See, as joint author, Page, John R.	A29.6:25
Terrell, Minister. Angora, agriculture in, notice relative to letter from  Terrestrial magnetic field, cosmical relations manifested in simulta-	A1.2:An4
neous disturbances of, sun, and aurora (Lemström). 1895. p. 492 Terrestrial magnetism:	A29.3:11 <sup>2</sup>
In 15th, 16th, and 17th centuries, contribution to bibliography of (Hellman). 1895. p. 352	A29.3:11 <sup>2</sup>
Relations of solar magnetism to, report on (Bigelow). p. 519  Terrestrial phenomena, notes on (Abbe). 1900. p. 109  Territories, agricultural capabilities of. p. 601	A29.6:28
See also States and Territories. Tessier, E. L., jr. Highways, improved. 1902. p. 60 Testing varieties. See Plants.	A22.3:23
Tetraopes femoratus fab., oviposition in young forest trees by (Gillette). 1897. p. 76	A9.6:9
Artesian and underground waters in, west of 97th meridian (Hill). pt. 3, p. 41	
note on— 1866. p. 343 1899. p. 514 quarantine of, in certain counties—	A27.9:4 A4.1:899
July 6, 1897 Dec. 16, 1897. p. 5 Aug. 17, 1898 Sept. 30, 1898	A4.5:8-14 A4.5:20 A4.5:22
Dec. 20, 1898 Jan. 9, 1899 June 27, 1899 Dec. 19, 1899. p. 5	A4.5:30 A4.5:36
Dec. 14, 1900. p. 5.  Jan. 11, 1902. p. 5.  Dec. 27, 1902. p. 5.	A4.5:80–87 A4.5:93
raising— change in. 1872. p. 202. note on. 1873. p. 271. Cattle trade in, report on. p. 346.	A27.9:10 A27.9:11 A1.1:870
Central— grasses and forage plants of (Bentley). 1898 range improvement in, experiments in (Bentley). 1902 Climate of, notes on (Abbe). 1894. p. 331	A3.3:10 A19.3:13 A29.6:21
Cotton crop of 1887, aggregate damage from cotton worms in (Snow). 1889. p. 32.  Cotton in, 1866. p. 329.  Farm resources and products of, 1868. p. 115.	A9.7:2
Fungi of (Ravenel). 1869. p. 169. same. p. 171 Glanders among horses and mules in (Folsetter). p. 393	A1.2:C29 <sup>1</sup> A1.2:C29 <sup>2</sup>
Horses in, enzootic cerebro-meningitis among (Detmers). p. 363. Insects, injurious and other, observations on (Webster). 1891.	A1.1:881-2
p. 451 Locusts in, during spring of 1886 (Bruner). 1887. p. 9. Mexican cotton-boll weevil in (Townsend). 1895. p. 295 Plants from, descriptions of new (Holzinger). 1893. p. 286	A9.3:13 A9.7:7

Classification no.

#### Index Classification no.

Texas or southern cattle fever—Continued	Classification no
Investigations into nature, causation, and prevention of (Smith	
and Kilborne). p. 177	A4.1:891-2
Investigation of—	A 1 .00
1880 (Salmon). p. 98	
1881 (Salmon). p. 258.	A1.1:881-2
1883 (Salmon). p. 18	A1.1:883
1884 (Detmers). p. 426	
same. p. 247	A4.2:An5
1884 (Trumbower). p. 393	A4.1:884
same. p. 207.	
1895 (Hill). p. 318	<b>A4</b> .1:895–6
Maryland outbreaks (Curtice). p. 429.	A4.1:887-8
Nature, causation, and prevention of (Smith and Kilborne). 1893.  Northern cattle—	A4.3:1
inoculation to produce immunity from (Schroeder). p. 273	A4.1:898
protecting against (Wilcox), 1900, p. 27	A1.9:119
Organism in blood of cattle, persistence of (Schroeder). p. 42	A4.1:899
Ravages of (Phillips). p. 142	A1.6:22
Regulations concerning—	A 1 1.000
1889. p. 55	A1.1:889 A4 1.990_00
1890. p. 79	A1.1:890
Report on—	
1869 (Gamgee). p. 89	
same. p. 82	A1.2:C29 <sup>2</sup>
1884 (Trumbower). p. 452.  Reports of inspectors and correspondents. p. 376.	A4.1:884
Scientific investigations. 1890. p. 92.	A1.1:890
same. p. 80.	A4.1:889-90
Statistical and historical investigations of progress and results of	
(Dodge). 1871. p. 175.  Transmission of, by cattle tick (Mayo). p. 481.	A1.2:C29 <sup>2</sup>
Transmission of, by cattle tick (Mayo). p. 481	A4.1:898
Virginia outbreaks (Rose). p. 461	A4.1:884 A1.1:864
Textile fiber production (Willits). p. 46	
Textile fibres of Pacific States (Flint). p. 471	A1.1:864
Textile material, imports and exports of, by Great Britain, 1863-64.	
No. 5. p. 27	A27.9:3
Textile materials, raw, imports and exports of, from Great Britain,	A 27 0.0
1863-64. No. 5. p. 36.  Thalessa, habits of (Riley). 1888. p. 168.	A27.9:2 A9.7:1
Thaxter, Roland. Fungi described in recent reports of Connecticut	110.7.1
Experiment Station. 1891. p. 278	A28.5:7
Thayer, E. H.:	
Address of, before convention of National League for Good Roads, Weshington, 1899, p. 63	A 10 2.14
Washington. 1893. p. 63 Good roads, going in debt for, address on. 1897	A 22 4 26
Thea virdis. See Chinese tea plant.	
Thelemark cattle of Norway. 1876. p. 432	A27.9:14
Theophila mandarina, history of, contribution to (Walker). 1889.	
p. 270	A9.7:1
Thermal belt in North Carolina. 1883. No. 58. p. 30	A27.9:Z1 A90 8.91
Thermal or phenologic constants (Ihne). 1895. p. 427	A 29.3:11 <sup>2</sup>
Thermographs, furnishing of, to voluntary observers, records to be kept at section centers (Wollaber). 1902. p. 219.	
kept at section centers (Wollaber). 1902. p. 219	A29.3:31
Thermometer scales, comparison of. 1892	A29.2:T34
Thermometers:	
Construction of registering air, to replace ordinary alcohol and mercurial thermometers (Sprung). 1896. p. 718	A 20 3 · 11 8
Early history of (Abbe). 1897. p. 16.	A29.6:25
Early history of (Abbe). 1897. p. 16	A29.6:28
Exposure of, note on (Abbe). 1897. p. 306	A29.6:25
Has wind any effect on? (Abbe). 1894. p. 464	A29.6:22

INGX	Classification no.
Thermometers—Continued	•
Maximum and minimum are too fragile, cannot effective protec- tion be devised without impairing sensitiveness? should not	
aluminum scales be discarded? (Oberholzer). 1902. p. 217	A29.3:31
Maximum and minimum—	
directions for use of. 1892	A29.11:B
registering, relative merits of various types (Draper). 1896.	A29.3:11 <sup>3</sup>
should not temperature forecasts be verified by readings of?	1120.0.11
(Henry), 1902, p. 134.	A29.3:31
Maximum and minimum radiation, instructions for use of (Mar-	A29.11:H
vin and Whitney). 1894.  Minimum, index of (Abbe). 1894. p. 511	A29.6:22
Readings of, comparative, at New York (Henry). 1900. p. 99	A29.6:28
Record of, old, at Pensacola, Fla. (Abbe). 1901. p. 177	A29.6:29 A29.6:27
Soil, combined maximum and minimum, instructions for use of	1120.0.21
	100 11 (1)
Thermometric scale used in meteorology (Abbe). 1895. p. 255 Thermoscope, chemical, notes on (Abbe). 1898. p. 552	A29.6:23 A29.6:26
Thiesen, Max. Vapor, saturated aqueous, pressure of, at tempera-	
tures below freezing. 1899. p. 106	A29.6:29
Thiessen, Alfred H. Snow rollers, report on. 1899. p. 100	A29.6:27
Thistie. See Canadian thistie— Russian thistie.  Thomas, Cyrus:.	
Agriculture of Colorado and New Mexico, notes on. 1869. p.	
379 *	A27.9:7
Colorado, northern, agriculture of, notes on. 1869. p. 284* Thomas, Fr. Cranberry leaf-galls, report on. 1889. p. 279	
Thomas, John J.:	
Farm implements and machinery. p. 410.	A1.1:862
Forest trees, culture and management of. p. 43	A1.1:864 A1.9:144
Thompson, Alexander. See, as joint author, Wilder, Marshall P.	111.0.111
Thompson, C. H. See, as collector, Hitchcock, A. S.	1070
Thompson, E. H. Tasmanian coccinellidæ, notes on. 1893. p. 11 Thompson, George Fayette:	A9.7:6
Agriculture Department, documents of, index to authors, with	
titles of their publications in, 1841–97	
Agriculture Department, index to annual reports of, 1837–93	A21.3:1 A1.9:137
Angora goat. 1901  Angora goat, information concerning. p. 281	A4.1:900
same, 1901	A4.3:27
Angora goat industry, progress of, in 1901. p. 457	A4.1:901
relation to. 1899. p. 441	A1.10:899
same, p. $102$	A4.1:899
Animal industry literature in publications of Agriculture Department, index to. 1900	A21.3:5
Animals, contagious diseases of, in foreign countries. p. 492	A4.1:900
Animals and animal products, imports and exports of, 1892–99.	A 4 1 000
p. 421 same. 1900. p. 535	A4.1:899 A4.1:900
Mohair and mohair manufactures. 1901. p. 271	A1.10:901
same. p. 480	A4.1:901
Musk ox. p. 507	A4.1:901
reports of 1863–94. 1897	A21.3:2
Thompson, J. C. Sweet potatoes, culture of, at North, and modes	41.000
of preserving through winter. p. 220	A1.1:862
plished in. 1902. p. 30	A10.3:120
Thompson, John. Soils, acid digestion of, effects of presence of few	A P. O. 47
drops of nitric acid in. 1895. p. 49	A7.3:47
Botany and agriculture of Rocky Mountain basin. p. 125	A1.1:866

\*By a misprint, this page number appears twice.

	Index
	Classification no.
Thompson, R. O.—Continued	_
Fruits, native, of Far West. p. 207.	A1.1:865
Grape-growing at the West. p. 115.	A1.1:866
Thompson, Wibray J.:	
Brown coal and wood char in filtration of cane juices and sirups.	
p. 268	A1.1:887
same. p. 99	A7.3:17
See also, as collaborator, Wiley, Harvey Washington.	
Thompson, Windham County, Conn., temperature observations at,	100 0 01
1852-94 (Larned). p. 364. Thomson, A. M. Tree culture on western plains. 1891. p. 45	A29.6:21
Thomson, A. M. Tree culture on western plains. 1891. p. 45	A13.3:5
Thorne, Charles E.:	
Agricultural experiment stations, officers of, how can we increase	A 10 9.00
the attendance of, at our annual conventions? 1894. p. 61	A10.3:20
Fertilizers, cooperative field experiments with, report of confer-	A10 4.7
ence of representatives of experiment stations regarding. 1889.	
Pot or box vs. plat experimentation, report on. 1891. p. 81	A10.5:3
Thornton, C. C. Swine plague in the Southwest, character of.	A 1 . Q . 90
1879. p. 84	A1.6:22
Thought. See Climate and thought.	
Thripidæ:	107.7
Certain, observations on (Pergande). 1895. p. 390	A9.7:7
rood habits of (Usborn). 1888. p. 137	A9.7:1
Thunder:	100 0 00
Distant, note on (Abbe). 1898, p. 566	A29.6:26
Lightning and, in December (Abbe). p. 464	
Lightning without, note on (Abbe). 1900. p. 549	A29.6:28
Thunder cloud, kites within (Hovenden). 1898. p. 250	A29.6:26
Thunder storms:	1.00.0.00
Air currents in, note on (Abbe). 1899. p. 366	
Antigua, W. I. (Alexander). 1900. p. 380	A29.6:28
Apparatus for registering (Abbe). 1902. p. 313	A29.6:30
August 2, 1899, report of (Henry). p. 359	A29.6:27
Automatic records of (Kimball). 1899. p. 355.	
Barometric oscillations during, and use of brontometer, with	
bibliography (Symons). 1901. p. 463.	A29.6:29
California, notes on (Abbe). 1898. p. 20.	A29.6:26
California, notes on (Abbe). 1898. p. 20. Do they advance against the wind? (Abbe). 1895. p. 296	A29.6:23
Eustis, Lake County, Fla. (Abbe). 1897. p. 251	A29.6:25
Eustis, Lake County, Fla. (Abbe). 1897. p. 251	
1902. p. 76	A29.3:31
Franklinville, N. Y. (Kales). 1897. p. 309.	A29.6:25
Frequency of (Abbe). 1897. p. 251	A29.6:25
Idaho, of May 16, 1900, notes on (Abbe). p. 207	A29.6:28
Jamaica (Abbe). 1896. p. 15	A29.6:24
Movement of, against wind (Abbe). 1895. pp. 383, 423, 465	A29.6:23
New Brunswick, 1897 (Kain). p. 105.	A29.6:26
New England, investigation of (Ward). 1893. p. 30	A29.3:9
New explanation of one of its phenomena (McFarland). 1901.	
p. 297	A29.6:29
New York State, of May 3, 1892 (Turner). 1892. p. 139	A29.6:20
Observations, circulars of instruction	A29.2:T43
Ohio, during summer of 1892 (Strong). p. 51	A29.3:9
Periods of, effect of proximity to sea on (Stearns). 1898. p. 452.	A29.6:26
Prediction of, notes on (Abbe). 1899. p. 159.	A29.6:27
Progressive movement of (Henry). 1896. p. 331	A29.6:24
Rain gushes in (Abbe). 1897. p. 303	A29.6:25
same (Abbe). 1898. p. 258	A29.6:26
September 17-18, 1895, report on (Henry). p. 538	A29.6:26
Skyland, Page County, Va., August, 1900 (Cragin and Cragin).	
p. 328 Summer of 1892, forecasting of (Conger). 1893	A29.6:28
Summer of 1892, forecasting of (Conger). 1893	A29.3:9
Two, at Royal Alfred Observatory, Mauritius (Claxton). 1900.	
p. 63	A29.6:28
Washington, D. C., report on (Cragin and Cragin). 1900.	
p. 287	A29.6:28
Winter, in Mississippi, note on (Abbe). 1900. p. 18	A29.6:28

Index	Classification no.
Thurston, Robert Henry. Mechanical engineering and mechanic arts,	Cassification au
education in. 1896. p. 111.  Tibbey, H. S. Meteorological observations in Alaska. 1894. p. 174.	A10.3:41
Tibbey, H. S. Meteorological observations in Alaska. 1894. p. 174. Ticks:	A29.6:22
Dipping cattle for destruction of (Nörgaard). p. 109	A4.1:895-6
South African, notes on some (Lounsbury). 1900. p. 41	A9.6:26
See also Southern cattle ticks.  Tidal lands:	
Diked marshes and, of Nova Scotia and New Brunswick (Board-	
man). 1885. p. 33	A1.7:7
Washington Territory (Morse). 1885. p. 62	A1.7:7
	A1.7:7
Tides. See Ocean tides. Tiger swallow-tail, abnormal, report of (Howard). 1894. p. 44	A9.7:7
Tilden, L. L. Farming, high, as illustrated in history of Nether-	
lands. p. 527 Tile draining, results of. 1882. No. 43	A1.1:866
Tile-horned prionus in prairie land, note on. 1886. p. 39	A9.3:12
Tillage, relation of, to soil physics (Sanborn). 1891. p. 97	A10.5:3
Tillage and products of soil on irrigated lands (Cureton). 1887. p. 282.	A15.2:P <del>94*</del> A1.9·105
Tillering of grains (Schulte). 1898. p. 10. Tillman, G. D. Nut grass, extermination of. p. 388.	A1.1:889
Same, p. 388	A6.1:889
Tillo, A. A., short biography of (Abbe). 1900. p. 15	A29.3:11 <sup>2</sup>
Tilton, G. W. Spark arresters, importance of. 1887. p. 136	A13.3:1
Timber: "Boxed" or "turpentine," strength of (Fernow)	A19 4.8
Consumption of, letter regarding (Fernow). 1893	A13.2:F76
Culture of, condition of, in Southern and Western States (Baker).	
1884. p. 105	A13.5:4 A19.3:14
Elementary discussion of characteristics and properties of wood	
(Roth). 1895same, introduction to (Fernow). 1895. p. 5	A13.3:10 A13.3:10
Forests and public domain, legislation for preservation of (Egles-	2110.0.10
ton). 1888. p. 212	A13.3:2
Increasing durability of (Colman). 1887.	A13.4:7 A13.4:3
same (Fernow). 1898	A13.4:20
Investigations, collection of test pieces of pines for, instructions for. 1892	A13.2:P65
Nebraska resources (Hall). 1901. p. 207	
Prairies (Edwards) n 495	A1 1.862
Preservation of. 1866. pp. 142, 382	A27.9:4 A1.10:895
same. 1896. p. 628.	A1.10:896
Resources of U.S., relation of railways to (Tratman). 1889. p. 68. Ship, in United States (Bates). p. 472.	A13.3:3 A1 1.888
Turpentine, field report on (Roth). 1893. p. 32	A13.3:8
See also Bridges and trestle timbers—Railroad ties—Wood.	
Timber lands, Government, proper value and management of: (Baker). 1884. p. 17	A1.7:5
(Egleston). 1884. p. 11	A1.7:5
(Egleston). 1884. p. 11. (Fernow). 1884. p. 22 (Hough). 1884. p. 5	A1.7:5 A1.7:5
Timber physics:	
Part 1; preliminary report (Fernow). 1892	A13.3:6
Progress in (Fernow). 1898	A13.4:18
same (Roth)	A13.4:19
Timber pines of southern United States, report on (Mohr)	A13.3:13
Timber trestle bridges, economical designing of, report on (Johnson).	A13.3:12
Same, review of report (Lindenthal). p. 31	A13.3:12
раше, посез оп герогт (вегд). p. 34	A15.5:12

	Index Classification no.
Time: Hawaiian standard of (Abbe). 1900. p. 207	A29.6:28 A29.6:23
1899. p. 362 1900. p. 396 1901. p. 70	A29.6:27 A29.6:28 A29.6:29
Timothy: New enemy to (Howard). 1892. p. 90	A1.10:896
Timothy seed. See Crops, principal.  Tin cans, poisoning by preserving in (Roos). 1892. p. 930  Tin roofs as lightning conductors, notes on (Abbe). 1898. pp. 166,	A7.3:137
258 Tindall, J. E. South Carolina, farmers' institute work accomplished in 1902 p. 28	A29.6:26 A10.3:120
Tineid, interesting, report on (Murtfeldt). 1890. p. 303.  Tineina of United States and Canada, Chambers's index of, steps toward revision of. See Walsingham, Lord.  Tingle, E. W. S. Brunswick, Germany, cost of hauling farm prod-	A9.7:2
ucts over wagon roads at. p. 7	A22.4:27
Tipton, J. C., address of, before national road conference, July, 1894. p. 20  Tisserand, E. Ideal department of agriculture and industries. 1896.	A22.3:10
p. 543. Toad as a friend of the farmer. 1899. p. 28. Toads as an eradicator of fluke disease (Stiles). p. 220. Tobacco:	I A L IU:XXX
Acreage, report on. 1887. p. 421.  American. 1864. No. 6. p. 6.  Climate adapted to, notes on (Abbe). 1899. p. 254.	A29.6:27
Condition of crop, monthly notes on	A27.9: A27.9:3
1873. p. 132 1874. p. 103 1875. p. 95	A27.9:13 A27.9:14
Crop, statistics of, annual  Cultivation and curing of, instructions for (Estes)  Cultivation of, in Sumatra (Mulder). 1898  Cultural directions for different types distributed. 1902	<b>A</b> 1.8:58
Culture and management of—  1863 (Bradford). p. 87  same, with additional matter. No. 1. p. 26	
1867 (Bowie). p. 179	A1.1:867
brief history of. p. 123 connection with sheep husbandry. 1878. p. 125 report on (Butterweck.) 1898 Experiments with, conducted in various parts of United States,	A1.9:82
Fertilizers for. 1873. p. 39. Industry, growth of (Whitney and Floyd). 1899. p. 429.	A26.5:900 A27.9:11 A1.10:899
results of (Floyd). p. 455  Fertilizers for. 1873. p. 39.  Industry, growth of (Whitney and Floyd). 1899. p. 429.  Insects, principal, affecting plant (Howard)  same. p. 121  Investigations of Agriculture Department (Whitney). 1901.  p. 108  Methods of curing (Whitney)  Mosaic disease of (Woods). 1902.  Plantage guide for cultivating and curing (Shelton Tobacco-Cur-	A1.10:898 A10 3:99
ing Co.). 1876  Production and distribution. 1887. p. 445  Report on. p. 565  Supply of. 1887. p. 380	A1.8:10 A27.9:25 A1.1:878
Supply of. 1887. p. 380	A27.9:25

Index	Classification no.
Tobacco—Continued	Crassincation so-
Texas, experiments in. 1893. p. 50	A27.9:31 A1.8:63 A9.6:20
Tobacco flea-beetle, report on (Chittenden). 1898. p. 79	A9.6:10
resolutions of. 1865. No. 8. p. 16	A27.9:3
Tobacco leaf: Tax on, proposed (Newton). 1864. No. 1. p. 17	A27.9:2 A27.9:3
Tobacco powders and extracts, nicotin in, report of investigation of methods for determination of (De Schweinitz and others).	1121.0.0
1898. p. 113 Tobacco seed, plan of distributing, etc. 1902 Tobacco soils (Whitney). 1898	A7.3:56 A19.2:T55 A1.9:83
Tobacco soils of United States, a preliminary report upon soils of principal tobacco districts (Whitney). 1898.	A26.3:11
Tobacco-stalk weevil (Chittenden). 1902. p. 66	A9.6:38 A27.9:11
Tobacconists, convention of, recent. 1865. p. 4. Tod, John G., address of, before good roads convention of Texas.	A27.9:4
Feb., 1895. p. 18	A22.3:15
Farm implements, improved. p. 225 Underdraining, practical notes on. p. 584 Tollens, B.:	A1.1:866 A1.1:870
Ash constituents of plants; their estimation and importance to agricutural chemistry and agriculture. 1902. pp. 207, 305  Nitrogen-free extract of plants and feeding stuffs. 1897. p. 641.	A10.6:13 A10.6:8
Tolman, L. M.:  Coloring matter for foods, analysis of, provisional method for.	11101010
1902. p. 111.  Edible oils and fats, not including dairy products, methods for	A7.3:65
chemical analysis of. 1901 same. p. 20	A7.2:Oi5 A7.3:65
See also, as collaborator, Bigelow, Willard Dell; as joint author, Munson, L. S.  Tomatoes:	
Bacterial disease of (Smith). 1896.  Blight and rot of, treatment of. 1887.	A28.3:12 A28.4:4
Boll worm injuring, experiments on (Tracy). p. 141	A1.1:888
same. p. 141. Fresh and canned (Langworthy). 1900. p. 21.	A9.1:888 A1.9:119
Fungus diseases of, treatment of (Howell). 1889. p. 49	A6.3:11
Growing (Voorhees). 1898. Packing, 1885–86. p. 556. Tongue, Thomas H. Good roads, beneficial influences of. 1902.	
p. 56	A22.3:25 A5.3:7
Topography of southern Appalachians (Keith). p. 113	A1.2:Ap4 <sup>2</sup>
Tornado cloud of March 4, 1894 (Neal). p. 127.  Tornado fake, newspaper, notes on (Abbe): 1899. p. 360.  Tornadoes:	A29.6:22 A29.6:27
Alarms, unnecessary, notes on (Abbe). 1899. p. 255	A29.6:27
Albany, N. Y., March 26, 1895, report of (Sims). p. 92	A29.6:23 A29.6:24
April and May, 1896 (Henry). p. 82  Augusta, Ga., March 20, 1895., report of (Fisher). p. 92  Characteristics of notes on (Abba) 1899. p. 157	A29.6:23 A29.6:27
Characteristics of, notes on (Abbe). 1899. p. 157	
of (Emery). 1895. p. 252. Cook County, Ill., May 25, 1896 (Abbe). p. 168.	A29.6:23 A29.6:24
Eaglesmere, Pa., June 27, 1892., report of (Ball). p. 309	A29.6:20

Classification no.

	Classification n
Tornadoes—Continued	
Force of (Groat). 1899. p. 305.	A29.6:27
Fort Smith, Ark., of Jan. 12, 1898 (O'Donnell). p. 18	A29.6:26
Frequency per unit area (Abbe). 1897. p. 250	A29.6:25
Galveston, Tex., Nov. 6, 1892 (Wright). p. 309.	A29.6:20
Hampton Beach, N. H., July 4, 1898 (Sweetland). p. 308	A29.6:26
Hudson Co., N. J., on Aug. 24, 1901 (Eadie). p. 355	A29.6:29 A29.6:23
Iowa and neighboring States, May 3, 1895 (Abbe). p. 173	A29.6:24
Mississippi (Emery). 1902. p. 265.	A29.6:30
Mississippi (Emery). 1902. p. 265. New Richmond, Wis. (Libby). 1899. p. 299.	A29.6:27
No increase in, notes on (Abbe), 1899, p. 158.	A29.6:27
Norfolk, Va., on Aug. 6, 1901 (Gray). p. 372	A29.6:29
Observations of, report of (Gale). 1899. p. 303	A29.6:27
Origin of, notes on (Abbe). 1898. p. 552	A29.6:26
Phenomena, notes on (Abbe). 1899. p. 311	
Photographs of, spurious, notes on (Abbe). 1899. p. 313	
same (Henry). 1899. p. 203	
Report of, 1889–1896 (Henry). 1896. p. xxiii	A29.1:896
Report on (Watta). 1899. p. 307	A29.6:27
Report on (Watts). 1899. p. 307. St. Louis, low pressure in (Baier). 1896. p. 332.	A29.6:24
St. Louis, May 27, 1896 (Abbe). 1896. p. 255	A29.6:24
same (Frankenfield). p. 77	A 29.6:24
St. Louis, origin of (Walsh). 1897. p. 308	A29.6:25
Tennessee, Mississippi, and Arkansas (Emery). 1900. p. 499	A29.6:28
Tracks, ancient, note on (Abbe). 1899. p. 366.	A29.6:27
Waterspout, cloud-burst or, note on (Abbe). 1897. p. 207	A29.6:25
Wind force in, notes on (Kimball). 1901. p. 419	A29.0:29
Toronto, Canada:	
Cloud heights at (Abbe). 1897. p. 303	A29.6:25
Cloud observations at (Blake). 1897. p. 19	A29.6:25
Tortoise. See Florida land tortoise.	•
Tortricid, new, from California, description of (Walsingham). 1891.	
p. 465	A9.7:3
Totten and Crossfield purchase. See Hosmer, Ralph S., and Bruce,	
Eugene S.	A 19 9.07
Toumey, J. W. Tree planting, practical, in operation. 1900	A13.3:27 A4.1:900
Towns County, Ga., cattle in, order releasing from quarantine. 1898.	
Same, Aug. 1, 1899.	A4.5:41
Townsend, C. H. Tyler:	
Biologic notes on New Mexico insects. 1892. p. 37	A9.7:5
Chilo saccharalis in New Mexico. 1891. p. 24	A9.7:4
Cottontail bot, further notes on, with breeding and identification	4055
of fly. 1893. p. 317.	A9.7:5
Dipterous parasites in their relation to economic entomology.  1893. p. 201	A9.7:6
Entomological notes of interest. 1891. p. 26.	A9.7:4
Insect injury in New Mexico, possible and actual influence of irri-	120.4.1
gation on. 1892. p. 78	A9.7:5
Locusts, injurious and other, of New Mexico and Arizona. 1893.	
p. 29	A9.7:6
Mexican cotton-boll weevil in Texas, report on. 1895. p. 295	A9.7:7
Mexico, insects of economic importance in, report of trip to inves-	AO 0.4
tigate. 1896. p. 9.  Michigan, injurious insects in, some notes recorded on. 1889.	A9.8:4
	A9.7:2
p. 42. White grub of Allorhina, note on. 1891. p. 25.	A9.7:4
See also, as collector, Cockerell, Theodore Dru Alison.	110.7.1
Townsend, C. O. Sugar beet, some diseases of. 1902. p. 90	A1.8:72
Townsend, Theodore F. Weather map, is it appreciated and under-	
stood by the masses? would not postal card weather forecast	
prove satisfactory substitute for map? 1899. p. 102	A29.3:24
Toxoptera, grain, notes on (Webster). 1892. p. 245	A9.7:4
Tracheal injections. See Bronchitis, verminous.	I

Index	
Traction tests on public roads (Neely). 1896	Classification no.
Tracy, Samuel Mills:	1122.0.20
Cooperative branch grass stations in South. p. 344	A1.1:891
same. p. 344. Corn culture in South. 1898	A6.1:891
Cotton, cultivated varieties of. 1896. p. 197	A10.3:33
Dairving in South. 1902	A1.9:151
Forage plants and forage resources of Gulf States. 1898	A3.3:15
Forage plants for the South	A1.9:18
ern States, and composition of forage plants grown in South.	
1896. p. 91	A10.6:6
Grape growing in South. 1900	A1.9:118
Utah, investigation of. 1888. p. 5	A6.3:6
Hog raising in the South. 1899	A1.9:100
same. p. 362	A4.1:899
same. p. 378	A1.1:890 A6.1:890
Puccinia and uromyces, new species of, descriptions of. 1891.	110.1.000
p. 281	A28.5:7
Tomatoes, boll worm injuring, experiments on. p. 141	
same. p. 141	A9.1:888
Tracy, W. W., jr.:	
Peppers, American varieties of. 1902	A19.3:6
Vegetables, commercial varieties, testing of. 1900. p. 543	A1.10:900
Trade: Domestic and foreign industry and, notes of. 1892. p. 360	A 97 Q-30
Export, of U.S., in live stock and meat products, 1889–1892 (Rusk).	
Falling off of, between Great Britain and U.S. 1865. No. 5. p. 32.	A27.9:3
Foreign—	
agricultural products— 1892. p. 308	A 27 Q-30
1893–1897. (Hitchcock)	A12.3:10
1894–1898. (Hitchcock)	A12.3:15
1890–1899. (Hitchcock)	
1891–1900. (Hitchcock) 1892–1901. (Hitchcock)	
American surplus and. 1889. p. 159	
recent features of (Peters)	
Japan, China, and Hongkong, 1889–1899, our trade with (Hitch-	A 10 0.10
cock). 1900. Pan-American. 1890. p. 454	A12.3:18 A27.9:28
Scandinavia, our trade with, 1890-1900 (Hitchcock). 1900	A12.3:22
Tradescantia, three new species of, from U.S. (Rose). 1899. p. 204.	A6.5:5
Traffic of country roads, circular relative to. 1896	A22.4:19
Trans-Mississippi and International Exposition. See Omaha.  Trans-Missouri irrigating convention, 1873. p. 598	A27.9:11
Transportation:	
Development of, in United States (Sinclair). 1899. p. 643	
Farm. 1901. p. 690	A1.10:901 A27.9:4
Transportation companies:	AZI.U.T
Freight rates of, monthly notes on, Aug., 1882-Dec., 1895	<b>A27.9</b> :
Letter to, relative to exportation of diseased cattle. 1890	A1.2:R131
Warnings of washouts, floods, cold waves, and heavy snowfalls for benefit of (Outram). 1899. p. 38	A 90 3 94
same (Smith). 1899. p. 37	A29.3:24
Transportation rates:	
European. 1883. No. 56, p. 39	A27.9:21
Farm products, cost of hauling to market or to shipping points in foreign countries, reports of consuls, 1897	A 22.4.27
foreign countries, reports of consuls. 1897	A27.8:21
Report on—	
1897. p. 755 1898. p. 723	A1.10:897
1000. μ. (40	V1.10:090

Classification no.. Transportation rates—Continued Report on—Continued 1901. p. 788.

Road materials and, in certain States west of Mississippi River, A1.10:901 information regarding. 1894 A22.3:5 See also Freight rates. Trap for insects. See Lantern trap for insects. Traphagen, F. W. Alkali in Montana. 1900. p. 72 A10.3:76 Trappes, France: Atmosphere at, studies on (Teisserenc de Bort). 1901. p. 20... Balloons and kites at, results of work with (Abbe). 1899. p. 411. A29.6:29 A29.6:27 Trapping of sparrows for sporting purposes, with paper descriptive of apparatus and methods employed (Hill). 1889. p. 178.... A5.3:1Tratman, Edward Ernest Russell: Metal track on railways as substitute for wooden ties, preliminary Patents relating to metal railway track— 1889. p. 36 ...... A13.3:3 1894. p. 292 ...... A13.3:9 Railways, relation of, to timber resources of U.S. 1889. p. 68. A13.3:3 Railway ties in England, treatment of. 1889. p. 49...... A13.3:3 Use of metal railroad ties. 1894. A13.3:9 Treasury, Comptroller of, decision relative to use of annual appropriations, Apr. 18, 1900.

Treasury Department, files in, injury done by roaches to. 1888. p. 67. A2.2:Ap6 A9.7:1Treaty. See Reciprocity treaty. Tree crickets, carnivorous habits of (Murtfeldt). 1889. p. 130..... A9.7:2A13.4:22 Tree seeds, collection of, and propagation of seedlings (Sudworth). 1900 ..... A13.3:29 See also Forest nursery. Trees: Age of, and time of blazing determined by annual rings. 1897... A13.4:16 American, regulations of foreign governments regarding importa-A9.5:41 same, 1900..... A13.3:28 Climate of Colorado and its effect on (Parsons). 1888. p. 221... A13.3:2 A13.3:5 ern California, southern Nevada, northwestern Arizona, and southwestern Utah, notes on (Merriam). 1893. p. 285...... A5.5:7 Growth of maximum size and age, period of decline, completion of cycle, rate of. 1898. p. 664
Important in forestry. 1897. p. 645
Inspection of, as conducted under laws of California (Lelong). p. 12. A1.8:57 Nursery inspection in Connecticut (Britton). 1899. p. 131 ..... A10.3:65 Of San Diego County, Cal. 1888. p. 202 Of Washington, D. C. 1891 A13.3:2 A13.2:T71 Planting— 

Index	(Versidentian me
Trees—Continued	Classification no.
Planting—Continued	•
waste places on farm (Keffer). 1896. p. 323	A1.10:896
Western plains (Keller). 1895. p. 341	A1.10:895 A1.7.2
same. p. 37	A1.8:28
same. p. 37. Prairies, note on. 1866. p. 286.	A27.9:4
Pruning of other plants and (Saunders). 1898. p. 151 Seedlings, instructions for growing.	A1.10:898
Some foreign, of economic value adapted to planting in Southern	A15.4:0
States. 1895	A13.3:11
States. 1895 Southern Appalachians (Ashe and Ayres). p. 93 Standing measurement of. 1898. p. 662	A1.2:Ap4 <sup>2</sup>
Transplanted, application of water pressure to. 1899. p. 21	A1.10:898
Which trees attract lightning? (Abbe). 1898. p. 257.	A29.6:26
See also Almond—Apple—Arbor day—Arborescent flora—	
Bamboo — Beech — Birch — Boxed or turpentine timber —	
Camphor—Carya alba—Catalpa—Cherry—Chestnut—Cin- chona—Citrus trees—Cocoa palm—Cocoanut palms—Coni-	
fers—Cork oak—Cork tree—Cottonwood—Cuban pine—	
Date palm—Eucalyptus—Evergreen—Forest trees—Fruit	
trees—Hard woods—Lebbek—Loblolly pine—Longleaf pine   —Maple—Marsh or Pond pine—Mesquite—Oaks—Orchard	
trees—Osage orange—Peach trees—Pear trees—Pine—Plum	
trees—Red cedar—Sapindaceæ—Shade trees—Shortleaf pine	
—Southern pine—Spruce pine—Timber—Timber pine—	
Wattle tree — Western hemlock — White pine — Willow — Witch-hazel — Woody plants—Zamia.	•
Trelease, William:	
Aletia, habits and natural history of. 1878. p. 361	A9.2:C82
Nectar, what it is, and some of its uses. 1879. p. 319	A9.2:C82
same, p. 129	A28.1:886
same, p. 129 Smut of timothy. p. 87	A1.1:885
Treleasea, a new genus of Commelinaceæ (Rose). 1899. p. 207	A6.5:5
Trematode H. similis looss. See Hæmatoløechus. Trematodes. See Fluke-worms.	
Tremex, habits of (Riley), 1888, p. 168	A9.7:1
Trenchard, John A. Southern agriculture, condition and prospects	A 05 0 4
Trenchard, John A. Southern agriculture, condition and prospects of. 1868. p. 447.  Trenton, N. J., insecticide experiments at (Bennett). 1886. p. 27.	A27.9:6
Tres Marias Islands, Mexico:	
Bibliography of, partial (Nelson). 1899. p. 93. Birds of (Nelson). 1899. p. 21	A5.5:14
Birds of (Nelson). 1899. p. 21	A5.5:14
Crustacea of, notes on (Rathbun). 1899. p. 73	A0.0:14 A5 5:14
Mammals of (Nelson). 1899. p. 15.	A5.5:14
Natural history of. 1899	A0.0:14
Plants of (Rose). 1899. p. 77	A5.5:14
Trescot, T. C. Sce, as collaborator, Wiley, Harvey Washington.	A0.0.14
Thurst haid now think an angularity designing of	
Report on (Johnson)	A13.3:12
same, notes on report (Berg). p. 34	A13.3:12 A13.3:12
See also Bridges and trestle timbers — Timber.	
Triblidium rufulum, report on (Ellis). 1889. p. 29  Trichina spiralis, report on. p. 389.	A28.5:5
Trichina spiralis, report on. p. 389	A1.1:869
Trichinæ: American (Virchow) 1884 n 181	A4.3:30
American (Virchow). 1884. p. 181	A4.1:898
See also Pork.	
Trichinosis:  Europe of elleged American origin (Stiles) 1901 n 156	A 4 2 · 20
Europe, of alleged American origin (Stiles). 1901. p. 156 Extent of, in America and Europe (Salmon). p. 475 same. 1884. p. 269	A4.1:884
same. 1884. p. 269	A4.2:An5

	Index
	Index Classification no.
Trichinosis—Continued	
Germany— bibliography of (Hassall). 1901. p. 193	14 2.20
general remarks on (Stiles). 1901. p. 9.	A4 2.20
statistical review, during 1881–1898 (Stiles). 1901. p. 35	
Note on. 1866. pp. 56, 127	A27.9:4
Trinidad, British West Indies, insect pests of, notes on some (Urich).	
1893. p. 196	A9.7:6
Tropical cyclones, atmospheric circulation in, as shown by move-	400 0 4401
ments of clouds (Boyer). 1896	A29.2:At61
Tropical islands of U. S., agriculture in (Cook). 1901. p. 349  Tropical vegetable, chayote (Cook). 1901.	A6.3:28
Trotters. See Roadsters and trotters.	A0.0.20
Troughs, barometric, of Plateau region, report on (Hazen). 1895.	
p. 207	A29.6:23
Trowbridge, John:	
Electrodynamic radiations from sun, endeavor to discover. 1896.	10000
p. 409. Lightning, does it ever strike ocean? 1902. p. 478	A29.6:24
Poontgon rays report on 1907 n 248	A29.6:30
Roentgen rays, report on. 1897. p. 348	A29.6:25
Development of (Earle). 1900. p. 437	A1.10:900
Louisiana (Wiggins). 1887. p. 240.	A27.9:25
Report on (Oemler). p. 583	A1.1:885
same (Reeve). p. 663	' A1.1:888
True, Alfred Charles:	
Advertising in our agricultural experiment station publications.	110 0 10
1898. p. 41 Agricultural colleges, American, some types of. 1898. p. 63	A10.3:49
Agricultural colleges and experiment stations, American, report	A1.10:096
of bibliographer of. 1901. p. 29	
Agriculture Department, relation of, to farmers' institutes. 1902.	1110.0.00
n. 22	A10.3:110
Agricultural education in United States. 1899. p. 157	A1.10:899
Agricultural education and research in Belgium. 1896. p. 361	A1.10:896
Agricultural experiment station movement in United States—	A 10 0.1
brief account of. 1889. p. 73history and organization of	A10.3:1 A10.4:44
permanent elements in work of. 1896	A10.4:30
report on. 1899. p. 513.	A1.10:899
report on. 1899. p. 513	A10.3:26
work and expenditures of	A10.12:
work of, some elements of permanency in. 1896. p. 42	A10.3:30
Bibliographer of Association of American Agricultural Colleges	
and Experiment Stations, report of— 1897. p. 20	A 10 2.40
1899. p. 19	
	A10.3:115
Card index of experiment station literature, outline of. 1902	
See also, Agricultural literature, index to.	
Education and research in agriculture in United States. 1894.	
p. 81	A1.10:894
Education, popular, for the farmer in United States. 1897. p. 279.	A1.10:897
Europe, institutions for agricultural education in, some features of. 1897. p. 7	A10.4:32
Experiment Stations Office, Agriculture Department—	A10.4.02
work of. 1895. p. 39.	A10.3:24
work of. 1895. p. 39	A1.10:897
Farmers' institute as medium for developing mutual interests and	
relations of farmers and United States Department of Agri-	1400
culture. 1902. p. 102.	A10.3:120
Farmers' institute work in Alaska, Hawaii, and Porto Rico.	110 2.100
Rural common school, some problems of. 1901. p. 133	A10.3:120 A1.10:901
See also, for reports as Director, Experiment Stations Office, Agri-	43.4.4.U.UUL
culture Department, 1893–1902	A10.1:
<b>,</b> ,	

	Classification n
True, Alfred Charles—Continued	
See also, as editor of proceedings, Agricultural Colleges and Ex-	
periment Stations, American, Association of; Farmers' Insti-	
tute Workers, American Association of — Hogan, Mrs. Louis	1
E. Shimer.	
True, Alfred Charles, and Clark, V. A. Agricultural experiment	110 0 00
stations in U.S. 1900	A10.3:80
True, Alfred Charles, and Crosby, D. J. Agriculture experiment	
stations in foreign countries. 1902.	A10.3:112
True, Alfred Charles, and Hall, Frank H. Farmers' institutes, re-	A10.6:7
port on. 1897. p. 635	A10.0.1
of Agriculture Department, development of. 1899. p. 403	A1.10:899
Trumbower, M. R.:	111.10.000
Bronchitis, parasitic, among calves. p. 465	A4.1:884
Cattle—	
ear of, diseases of. p. 367	A4.2:C29 <sup>2</sup>
eye of, and its appendages, diseases of. p. 353	A4.2:C29 <sup>2</sup>
foot of, diseases of. p. 349	A4.2:C29 2
skin of, diseases of. p. 325	A4.2:C29*
Ergotism among cattle in Kansas. p. 310	
same. p. 89	A4.2:An5
Glanders, outbreak of, at Miami, Mo. p. 457	
Glanders among horses. p. 418.	
same. p. 237	A4.2:An5 A4.1:884
same. p. 238	
Horse—	A4.L.AHU
heart and blood vessels of, diseases of. p. 219	A4.2:H78
nervous system of, diseases of. p. 181	A4.2:H78
Kansas, Southern cattle fever in, outbreak of. p. 393	A4.1:884
	1 4 4 4 4 4
Southern cattle fever at Chicago Union Stock Yards. p. 444	A4.1:884
Southern cattle fever, outbreak of, in Butler County, Kans. 1883.	ļ
p. 420 same. p. 239	A4.1:884
same. p. 239	A4.2:An5
Texas fever, tuberculosis, glanders. p. 452	A4.1:884
Trypanosomiasis in rats and bandicoots. p. 155	A4.1:901
Tsetse-fly disease. See Nagana.	
Tuberculin:	
Distribution of. 1899. p. 532.	A4.1:899
Growing tubercle bacilli for (Cary). 1898. p. 8	A4.3:22
Injections of, effects upon milk of healthy and diseased cows	]
(De Schweinitz). 1896. p. 15	A4.3:13
Made from tuberculosis bacilli derived from different animals,	
effect of (De Schweinitz and Schroeder). p. 579	
Preparation and use of (De Schweinitz). 1898. p. 111	
Test for tuberculosis (Salmon). 1901. p. 581	
Test of imported cattle (Salmon). 1901	
Tuberculosis:	Ation
Among domestic animals, preventive measures against (Bang).	
p. 535	A4.1;899
Animal, in some of its relations to human tuberculosis (Salmon).	
p. 257	A4.1:901
Bovine, practical suggestions for suppression and prevention of	j .
(Smith). 1894. p. 317	A1.10:894
Cattle—	A 4 7 007 0
detection of (Curtice). p. 283	A4.1:895-6
in Kansas (Mayo). 1899. p. 479	A4.1:898
prevalence of, in New York (Schroeder). p. 66	AA 1.202_A
Cattle and other animals, necessity of reducing. 1898. p. 22	A1 9.60
Germs of, in milk, killing (Wilcox). 1899. p. 24.	A1.9:107
Investigations of. 1896.	A4.3:13
Investigations of. 1896	A4.1:898
	•

	Classification no.
Tuberculosis—Continued	<b>\</b>
New South Wales (Baker). p. 386	
same, correction, p. 502	A4.1:899
Olive (Pierce). 1891. p. 148. Report on (Trumbower). p. 452	A20.0:0 A4 1.884
Suppression and prevention of, some practical suggestions for	
Swine; nature of disease, with report of three cases (Moore and	A4.3:7
Dawson). p. 207. Tuberculin test for (Salmon). 1901. p. 581.	A4.1:895-6
See also Berlin, international congress on tuberculosis—Bovine	A1.10:901
tuberculosis — Cattle orders.	
Tuberculosis bacillus:	
Attenuated—	
further experiments with (De Schweinitz and Schroeder).	A4.3:13
its use in producing immunity from tuberculosis in guinea	
pigs (De Schweinitz). p. 318	A4.1:898
Branched forms of, found in cultures (Dorset). p. 572	A4.1:901
Composition of (De Schweinitz and Dorset). p. 295	
Cultivation of, use of eggs as medium for (Dorset). p. 574	A4.1:901
(De Schweinitz and Schroeder). p. 579	A4.1:901
Experimental observations on presence of, in milk of cows	4.4.0.7
(Schroeder). 1894. p. 75  Fats contained in (De Schweinitz and Dorset). p. 301	A4.3:7
Consider to the contained in (De Schweinitz and Dorset). p. 301	A4.1:898
Growing, for tuberculin (Cary). 1898. p. 8 Growth of, upon acid media (De Schweinitz and Dorset). 1896.	A4.3:22
p. 7	A4.3:13
Mineral constituents of (De Schweinitz and Dorset). p. 302	A4.1:898
New stain for (Dorset). p. 326	
Report on (De Schweinitz). p. 262	A4.1:900
Some experimental observations on presence of, in milk of tuber-	
culous cows when udder is not visibly diseased (Smith and	4.4.0.0
Schroeder). 1893. p. 60	A4.3:3
Some products of, and treatment of experimental tuberculosis with	A4.1:898
antitoxic serum (De Schweinitz). p. 305	A4.1.000
Tule River Basin, California, duty of water in (Chandler). 1902. p. 159  Tulip tree leaf gall-fly, report on. 1890. p. 362	A10.3:119
Tulip tree leaf gall-fly, report on. 1890. p. 362	A9.7:2
Tumbling mustard. See Mustard.	1.4.0.000.9
Tumors of cattle (Lowe). p. 321	A4.2:C29*
governor's message. p. 3	A22.4:33
Tupper, Mrs. Ellen S.:	
Bee keeping. p. 458	A1.1:865
Winter bee keeping. p. 209	A1.1:867
Turkestan alfalfa (Kennedy). 1900	A3.4:25
See also Alfalfa. Turkey, sheep farming in. 1868. p. 365	1 27 Q.B
See also Angora — Mersivan.	1121.0.0
Turkey in Asia. See Harpoot.	
Turkeys:	
Animal parasites of, check list of (Hassall). 1896	A4.4:12
Domestic, origin of (Baird). p. 288	A1.1:866
Entero-hepatitis in, infectious, direct transmission of (Moore).	A A A . 5
1895	A4.4:5
(Smith). 1895. p. 7	A4.3:8
Unknown diseases in, preliminary investigations of (Smith).	
p. 82	A4.1:893-4
Turks Island, Weather Bureau station on, note on (Abbe). 1900.	
p. 293	A29.6:28
Turner, E. M. College work section, Association of American Agri-	
cultural Colleges and Experiment Stations, report of. 1893.	A10.3:16
p. 24	V10.9:10

Index	Classification no.
Turner, E. T. Thunderstorms of May 3, 1892, in New York State. 1892. p. 139	A29.6:20
Turnip beetle. See Red turnip beetle.	
Turpentine gathering, effect of, on timber of longleaf pine (Fernow). Turpentine timber. See Boxed or turpentine timber. Turtle Mountains, North Dakota, investigation to determine	A13.4:9
whether Melanoplus spretus breeds permanently in (Hunter). 1900. p. 30. Tuskegee Normal and Industrial Institute. See Atwater, Wilbur	A9.6:22
Olin, and Woods, Chas. D.  Tuspan, Mexico, agriculture of (Johnson). 1874. p. 498	A27.9:12
Tussock moth, white marked, consideration of parasites of, etc. (Howard). 1897	A9.8:5
Twig girdler, notes and observations on (Scheffer). 1895. p. 345.	
Twig pruners and allied species (Chittenden). 1898. p. 35	A9.6:18
p. 53 Two-lined chestnut borer. See Chestnut borer.	A22.3:23
Tyloderma, breeding and other habits of some species of Curculionidæ, especially of, notes on (Webster). 1889. p. 109	A9.7:2
Typhlocyba, parasitic castration of, by larva of Hymenopter and of a dipter (Giard). 1890. p. 271	A9.7:2
Typhoon of Nov. 10, 1900, in Hongkong, note on (Abbe). p. 558 Typhoons of Orient, origin, paths, and limiting zones of (Bergholz).	
1899. p. 402 Typhoons, origin of (Abbe). 1896. p. 417.	A29.6:27 A29.6:24
See also Baguios.	1120.0.24
Ugimyia sericarlæ rond, parasite of Japanese silkworm (Mik). 1891. p. 113. Uhler, Philip R. Heteroptera of Death Valley expedition. 1893.	A9.7:4
p. 260 Ulrich, J. C. Irrigation in Rocky Mountain States. 1899	A5.5:7 A10.3:73
Ulsch method in determining nitric nitrogen in complete fertilizers. 1892. p. 88	A7.3:35
Umbelliferæ, North American, monograph of (Coulter and Rose). 1900. p. 9	A6.5:7
See also Hesperogenia — Leibergia — Mexican umbelliferæ. Uncinariasis. See Hookworm disease.	110.0.7
Underdraining, practical notes on (Todd). p. 584	A1.1:870
Underflow and sheet waters of Nebraska (Hicks). 1893. pt. 3.	A15.2:Ir7 <sup>2</sup>
Underflow investigations, artesian and, reports of special agent in charge	A15.1:
Underhill, F. S. Artesian well investigation, field work in North	
Dakota. 1890. p. 105. Underwaters of Great Plains (Gregory). 1893. pt. 4, p. 3. Underwood, Lucien M.:	A15.2:Ir7 <sup>2</sup>
Orange in Florida, diseases of. 1891, p. 27.	A28.5:7
Pteridophyta of western Texas, description of. 1894. p. 557	A6.5:2
Unfermented grape juice, preparation of (Beal). 1900. p. 27	
1898 Same, Aug. 1, 1899 United Kingdom:	
Agricultural imports of, 1896–1900 (Hitchcock). 1902	A12.3:26
Agricultural produce statistics of. 1893. p. 210	A27.9:8
United States Propagating Garden. See Garden. Universities:	
Meteorology in (Abbe)—	4.00 0.00
1899. pp. 155, 420, 549	A29.6:27
1899. pp. 155, 420, 549. 1900. p. 165. 1901. p. 264.	A29.6:29
Weather Bureau men in, note on (Abbe). 1900. p. 114	A29.6:28

A10.3:104

	Index
TT : andian Continued	Classification no.
Universities—Continued  See also Agricultural and mechanical colleges — Agricultural colleges — Colleges and universities, State — Johns Hopkins University — Purdue University — Washington University, St. Louis, Mo.	
University boat crews. See Harvard and Yale boat crews. University extension:	
Agriculture at Cornell University (Craig). 1901. p. 137	A10.3:99
Attitude of agricultural colleges toward (Voorhees). 1895. p. 49. Work, how may it be best conducted by colleges of agriculture?	A10.3:24
(Roberts). 1898. p. 55 University lecturers, Weather Bureau men as, notes on (Abbe). 1899.	A10.3:49
pp. 256, 363, 420	A29.6:27
p. 314	A29.6:29
University theses, abstracts of, notes on (Abbe). 1899. p. 114 Updyke, Stephen G. Artesian well investigation; field work in South	A29.6:27
Dakota. 1890. p. 110	A15.2:Ar7
tending? 1894. p. 572	A27.9:32
New species of (Ellis and Everhart). 1891. p. 118	A28.5:6
same (Ellis and Tracy). 1891. p. 43	A28.5:7 A28.5:6
same (Dietel). 1891. p. 42.	A28.5:7
same (Dietel). 1891. p. 42. Urich, F. W. Insect pests of Trinidad, British West Indies, notes on some. 1893. p. 196.	A9.7:6
Urinary organs, diseases of: Cattle (Law). p. 137	A4.2:C292
Horses (Law). p. 59	A4.2:H78
Urine of horse, analysis of (Caldwell). p. 247	A1.1:872
Interesting (Halsted). 1889. p. 11	A28.5:5 A28.5:7
Uruguay: Agricultural statistics of. 1894. p. 268	A27.9:32
Agriculture in. 1891. p. 671  Bones and bone ash from, export of (Swalm). p. 519	A27.9:29
Cattle disease in (Swalm). p. 385	A4.1:900 A4.1:808
Wheat production and exportation in, course of, 1880–1896	A12.4:10
Wool growing in (Loggin). 1870. p. 436	A27.9:8
New species of (Ellis and Everhart). 1891. p. 118	A28.5:6 A28.5:6
See also Fungi, comomycetes.	
Ustilago zeæ mays, abnormal structures in fungi induced by, study of (Knowles). 1889. p. 14	A28.5:5
Agricultural statistics of. 1865. p. 90	A27.9:4
notes on (Fisher). 1893. p. 7	A5.5:7
Blackleg in, vaccination against (Merrill), p. 469	A4.1:899
Characteristics of, in relation to State weather-service work (Salisbury). 1894. p. 27  Electrical engineering in, development of (Jensen). 1898. p. 91.	A29:3:14
Electrical engineering in, development of (Jensen). 1898. p. 91. Grasses of arid districts of, investigation of (Tracy). 1888. p. 5.	A10.3:49
Sheep in, "big head" (disease) of (Rowe). p. 230	A4.1:901
Sheep in, "big head" (disease) of (Rowe). p. 230	A20.1:895
Southwestern—	
cactuses, yuccas, and agave in deserts and desert ranges of, geographic and vertical distribution of (Merriam). 1893.	
p. 345	A5.5:7
trees and shrubs in deserts and desert ranges of, notes on distribution of (Merriam). 1893. p. 285	A5.5:7
tribution of (Merriam). 1893. p. 285	1 A5.5:7

Index	Classification no.
Utah—Continued Wingless grasshopper of (Glover). 1872. p. 74  See also Bear River Valley—Big Cottonwood Creek—Cache County—Logan and Richmond canals—Salt Lake Valley— Sanpete County—Sevier Valley—Utah County—Weber	A27.9:10
County. Utah County, Utah, soil survey in (Means). 1900. p. 115	A1.8: <del>64</del>
Utica, N. Y., American Dairymen's Association at, Jan., 1871, notice of. p. 479  Vaccination, Russian official experiments in, for rinderpest. 1866.	A27.9:8
p. 235	A27.9:4 A4.4:28
Valdez to Eagle, Alaska, trail from, reconnoissance of (Jones). p. 283	A10.12:901
Valliant, M. Victor. Roads of Belgium. 1901. p. 87	A22.3:21
Van Deman, H. E. See, for reports as Chief, Pomology Division, Agriculture Department, 1886-92.  Van der Stok, J. P. Malay Archipelago, climate of. 1896. p. 669.  Van Diest, P. H. Geological conditions of artesian basins in eastern	
Colorado and New Mexico. 1890. p. 87	
Egg parasite of, oviposition of (Weed). 1900. p. 32	<b>A9.7</b> :1
Vanilla culture as practiced in Seychelles Islands (Galbraith). 1898. Van Pelt, J. C. Good roads in Kentucky, organizations for. 1901.	A9.7:2 A6.3:21
p. 81	A22.3:21
Address of, as president of Association of Official Agricultural Chemists, at 18th annual convention. 1901. p. 8	A7.3:43 A7.3:38
acidity in, determination of. 1893. p. 117	A7.3:38
method. 1894. p. 193.  See also, as joint editor, 1895, Chemical analysis, method of.  Vapor:	A7.3:43
Aqueous, total quantity of, in atmosphere (Abbe). 1894. p. 539. New determination of tension, notes on (Abbe). 1901. p. 74 Pressure of, for water and ice, notes on (Abbe). 1899. p. 476 Psychrometric tables for obtaining pressure (Marvin). 1900 Saturated aqueous, pressure of, at temperatures below freezing	A29.6:29 A29.6:27 A29.2:P95
(Thiesen). 1899. p. 106	A29.6:29
Variety testing. See Plants. Vasey, George:	
Agricultural grasses and forage plants of United States, and such foreign kinds as have been introduced.  Botanical collectors, instructions to  Botanical Exchange Club, rules for	A6.2:In7
Botanical notes—  1872. pp. 222, 313, 381, 446, 505  1873. pp. 34, 115, 171, 247, 354, 503, 585  1874. pp. 50, 151, 330, 379, 438, 513	A27.9:10 A27.9:11
1875. pp. 126, 178, 313	A27.9:13
Botany Division, record of some work of, including extracts from correspondence and other communications. 1889. p. 7	A6.3:8

	Classification n
Vasey, George—Continued	
First words of, as Botanist, Department of Agriculture. 1872.	107010
p. 142	A27.9:10
Forest trees, North American, distribution of 1884. p. 38  Forest trees of United States—	A1.7:5
native and naturalized, catalogue of. p. 151	A1.1:875
which usually attain height of 16 feet or more, catalogue of.	A1.1.010
1876	A1.8:11
Grasses needed for agriculture in United States, and necessity for	
experiment stations. 1885. p. 168	A1.7:9
Grasses of United States—	
descriptive catalogue of, including especially grass collec-	400000
tions at New Orleans Exposition. 1885	A6.2:G76
synopsis of tribes and genera, with descriptions of genera and	A1.6:63
list of species	A1.0:05
1892. p. 1	A6.5:3
Grasses—	120.0.0
arid districts of Kansas, Nebraska, and Colorado, investi-	
gation of. 1886	A6.3.1
new, from Mexico, descriptions of. 1893. p. 281	A6.5:1
new or noteworthy, from United States, description of. 1893.	40 = 1
p. 267	A6.5:1
Pacific coast, notes on some. 1893. p. 265	
Pacific slope. 2 pts. 1892-3	
same, reissued. 1893	
South; a report on certain grasses and forage plants for culti-	
vation in South and Southwest. 1887	A6.3:3
Southwest. 2 pts. 1890-1	
same, reissued. 1891	A6.2:N821
See also, for reports as Botanist, Botany Division, Agriculture	AQ 1.
Department, 1872–1892 Vasey, George, and Collier, Peter:	A6.1:
Grasses and forage plants. p. 157	A1.1:878
Vasey, George, and Rose, Joseph Nelson:	11111010
California, southern, plants collected by Edward Palmer in 1888,	
list of. 1890. p. 1	A6.5:1
same, Lower California. 1889. p. 9.	A6.5:1
Plants collected by Edward Palmer in 1889 at Lagoon Head, Ce-	
dros Island, San Benito Island, Guadalupe Island, and head of Gulf of California, list of. 1890. p. 9	A6.5:1
Plants collected by Edward Palmer in 1890 in Lower California	A0.0.1
and western Mexico, at La Paz, San Pedro Martin Island,	
Raza Island, Santa Rosalia, Santa Agueda, and Guaymas, list	 
of. 1896. p. 63	A6.5:1
Vedalia cardinalis in New Zealand (Wight). 1893. p. 194	A9.7:6
Vedalia notes, some. 1891. p. 439.	A9.7:3
Veeder, M. A.: Cipher code, international, for correspondence respecting the	
aurora and related conditions. 1894. p. 26	A29.3:11 <sup>1</sup>
Storm tracks, periodic and nonperiodic fluctuations in latitude of.	
1894. p. 185	A29.3:11 <sup>1</sup>
Vegetable cellulose. See Cellulose.	
Vegetable crops, some insects injurious to (Chittenden). 1902	
Vegetable dietary, our, some additions to (Coville). 1895. p. 205	A1.10:895
Vegetable fibers. See Fibers.  Vegetable foods, dry, insects affecting (Chittenden). p. 112	A Q R · A
See also Chinese vegetable food materials.	A5.0.4
Vegetable garden (Greathouse). 1899	A1.9:94
See also Farmers' vegetable garden.	
Vegetable nomenclature, work of experiment stations in reform of	
(Goff). 1891. p. 47	A10.5:3
Vegetable organisms, fatty bodies in, report on methods of estimation of (Maxwell). 1890. p. 94.	A7 9.00
Worstable physiology:	A1.5:28
Vegetable physiology: Agricultural colleges (Stone). 1896. p. 99	A10.3:41
TETTOMIAMENT COTTOMICS (MANTA). TOOM IN AN OFFICE O	- 484V(U)74

	Classification no.
Vegetable physiology—Continued	
Curious phenomena in (Vasey). 1872. p. 446	A27.9:10
buggestions for investigations in, with special relations to agricul-	
ture (Goodale). 1897. p. 438. Vegetable Physiology and Pathology Division, Agriculture Depart-	A10.0:7
ment (formerly Division of Vegetable Pathology):	A28.
Herbarium of, some Peronosporaceie in (Swingle). 1891. p. 109	
Record of some work of, including extracts from correspondence	
and other communications (Galloway). 1889. p. 41	A6.3:8
Work in (Woods). 1898. p. 261	A1.10:898
Work of, for farmer (Galloway). 1897. p. 99.	A1.10:897
See also Botany Division.  Vegetable products:	
Minor, and their sources. p. 170	A1.1:870
Minor, and their sources. p. 170. Stored, some little-known insects affecting (Chittenden). 1897.	A9.6:8
Vegetable substances, nitrogenous compounds of, suggestions regard-	
ing nomenclature of (Atwater). 1899. p. 118	A10.3:65
Vegetables:	A1 10.000
Commercial varieties, testing of (Tracy). 1900. p. 543	A1.10:900
Cooking, losses in. 1898. p. 22.  Desiccation of (Watts). 1875. p. 507	A27 9·13
Experiments with fertilizers on, to study feeding capacities of	1121.0.10
plants and variations due to action of fertilizers. 1891	A10.4:19
Losses in boiling, and composition and digestibility of potatoes	
and eggs. 1897	
Originators of, list of, with addresses and names of specialties	A10.4:18
Protection of, from injury by heat or cold during transportation (Harrington). 1894	A29.2:F94
Rules for naming. 1889.	A10.4:11
See also Asparagus — Beans — Beet — Bur or globe artichokes —	1110.1.11
Cabbage — Canadian field peas — Carrots — Celery — Cha-	
yote — Cucumbers — Cucurbits — Egg plant — Fruits and veg-	
etables — Garden vegetables — Horse-radish — Jerusalem arti-	
chokes — Lettuce — Melons — Onions — Peas — Potatoes —	
Sugar beets — Sweet potatoes — Tomatoes — Znaim cucumbers. Vegetables, canned:	
Adulteration of (McElroy). 1893. p. 1015	A7.3:138
Analysis of, provisional method for (Munson). 1902. p. 50	A7.3:65
Statistics of, 1886–87. p. 426	A27.9:26
	A1.9:73
Vegetation:	
Alkali soils and, some mutual relations between (Kearney and Cameron). 1902	A1.8:71
Characteristic, of desert region from western Texas to central	A1.0.71
Arizona (Dewey). p. 351	A1.1:891
same. p. $351$	A6.1:891
Chemistry of (Abbe). 1899. p. 361	A29.6:27
Effect of moon on, notes on (Kimball). 1901. p. 215	A29.6:29
Insects destructive to, general observations on (Neal). 1883.	40.9.1
p. 35	A9:3:1
influence on (Schreiber). 1895. p. 395.	A29.3:11 <sup>2</sup>
Season of 1894–1901 p. 369	A 29.6:30
Winds injurious to crops and (Curtis). 1895. p. 435	A29.3:11 <sup>2</sup>
See also Climate and vegetation.	
Vegetation house arranged for pot experiments (Britton). 1901. p.	A 10, 9,00
Veitch, F. P. Phosphoric acid rendered soluble by digestion with	A10.3:99
ammonium citrate at 65° C., amount of washing required to.	
remove. 1896. p. 73	A7.3:49
Velvet bean:	i
Report on (Smith). 1899  Valuable forage crop and soil renovator. 1898. p. 12	A3.4:14
Valuable torage crop and soil renovator. 1898. p. 12	A1.9:78
Venezuela, statistical view of. 1890. p. 469	
Ventura area, California, soil survey of (Holmes and Mesmer). p. 516	W4.1.000
521	A26.5:901 1
	-

	Index
	Classification no.
Vera Cruz, Mexico, northers of (Abbe). 1894. pp. 226, 363	A29.6:21
mildew, remedy for, 1886, p. 80	A6.3:2
Vermilion Parish, La., soils and products of (Rapley). 1884. p. 17 Verminous bronchitis. See Bronchitis.	A1.8:35
Verminous diseases of cattle, sheep, and goats in Texas, further in-	
vestigations on (Stiles). p. 223.	A4.1:901
Verminous diseases of cattle, sheep, and goats in Texas (Stiles). p. 357	A4.1:900
Vermont:	
American merinos of. p. 484	A1.1:865
Farm resources and products of. 1868. p. 6	A27.9:6 A29.6:25
Road improvement in, extract from governor's message (Smith).	A20.0.20
p. 10	A22.4:33
p. 10 same (Grout). p. 13	A22.4:33
See also Rutland County.	
Vermont Association of Road and Trotting Horse Breeders, exhibi-	
tion of (Romaine). p. 441	<b>A4.1:889-90</b>
Very, Frank W.:	
Atmospheric radiation, research conducted at Alleghany Observa-	A 00 E .C
tory and at Providence, R. I. 1900.  Cloud phenomena attending hailstorms. 1894. p. 292	A29.5:G A29.6:22
Potomac River, phenological observations on. 1900. p. 154	A29.6:28
Solar constant, report on. 1901. p. 357	
Vespertilionidæ, family. See Bats.	322010120
Vessels, stranded, Captain Dansey's kite for (Abbe). 1897. p. 206.	A29.6:25
Vetch, hairy, sand, or Russian (Scribner). 1895	A3.4:2
Vetches, cultivated (Smith)	A3.4:6
Veterinarians:	
Experiment station, and local veterinarians in State, desirability	A 4 0.00
of cooperation between (Bitting). 1898. p. 20	A4.3:22 A4.1:898
same. p. 426. Experiment station, as member of State board of health	A4.1:090
(Reynolds). 1898. p. 14.	A4.3:22
Experiment station, exhibit of, at Paris Exposition, 1900 (Peters).	
1898. p. 22	A4.3:22
Laboratory records for (Bitting). 1898. p. 18	A4.3:22
State, list of—	
1898. p. 603	A4.1:898
same. p. 616	
1899. p. 530	
1900. p. 653	
1901. p. 628	A1.10:901
Value to, of cooperative experiments (Lewis). 1898. p. 24	A4.3:22
See also Omaha, Nebr., Experiment Station veterinarians.	
Veterinary congresses, international. See Baden-Baden — Brussels.	
Veterinary Division, Agriculture Department, report of:	A 1 1.001 9
1881 and 1882. p. 257 1883 (Salmon). p. 17	A1.1:881-2 A1.1:883
See also note under A1.4.	A1.1.000
Veterinary science and practice, abstracts of reports of agricultural	
experiment stations on, 1889–1902	A10.6
Veterinary zoology. See Zoology.	
Vettin, Ulrich Franz Friedrich. Atmosphere, upper, study of, by	
means of cloud observations. 1896. p. 758	A29.3:11 <sup>8</sup>
Viala, Pierre. See, as joint author, Scribner, Frank Lamson	
Victoria, Australia: Irrigation in, recent investigation, legislation, and administration	
(Hinton). 1891. n. 235	A15.2:P041
(Hinton). 1891. p. 235	A27.9:33
See also Melbourne.	
Vienna, Austria, dead animals in, disposition of (Hogue). p. 350	
Vienna, Austria, first international congress of agriculture and	A OF 0 - 0
forestry, 1873, decisions of. p. 495	AZ1.9:12

Index	Classification no.
Vienna, Austria, International Exhibition, 1894, notice relating to Vieth, P. Volatile acids present in butter fat, quantity of. 1889. p. 99. Vine:	A1.2:V67
Culture and products, report to United States Commission of Paris Exposition of 1867 (Wilder and others). p. 164.  Culture and products of the. 1868. p. 146.  Disease of, in France (Price). 1873. p. 172.  Mineral nutrition of, for production of wine (McMurtrie). 1882. p. 180	A27.9:6 A27.9:11
Parasitic diseases of, congress on. See Florence, Italy.  See also Grape — Grapevine — Wine.  Vine culture institute. See Geisenheim-on-the-Rhine, Prussia.	
Vinegar: Analysis of, provisional method for (Frear). 1902. p. 62. Insects affecting (Howard). 1896. p. 100 Vinegar eel (Anguillula aceti), infection in human bladder, case of (Stiles and Frankland). 1902. p. 35.	A9.6:4
Vineland, N. J.: Grapevine, downy mildew and black rot of, treatment with salts of copper at. 1887. p. 17.  same. 1888. p. 13. Lesson in colonization. p. 410.	A6.3:10 A1.1:869
Vineyard, home, with special reference to northern conditions (Ragan). 1902.  Vinke, Albertus. Animals, dead, disposition of, in Amsterdam. p. 361	A1.9:156 A4.1:899
Vintage, Rhine, note on. 1888. p. 578	A27.9:26
Spot disease of (Dorset). 1900  Violet pest, new, report on (Coquillett). 1900. p. 48.  Virchow, Rudolf. American trichinæ. 1884. p. 181.  Virginia:	A28.3:23 A9.6:22
Agriculture of, status in 1870. p. 267	
Dec. 16, 1897. p. 8  Dec. 20, 1898. p. 4  Dec. 19, 1899. p. 8  Dec. 14, 1900. p. 7  Dec. 27, 1902. p. 13	A4.5:25-29 A4.5:49-55 A4.5:80-87
Eastern, negroes in, dietary studies among, in 1897 (Frissell). 1899. p. 7 same, in 1898 (Bevier). 1899. p. 27	A10.3:71
Farm resources and products of. 1868. p. 67  Her past, present, and future (Janney). p. 17  Horsesin, disease known as "staggers" among (Harbaugh). p. 209  Insect injury to chestnut and pine trees in neighboring States	A27.9:6 A1.1:864 A4.1:886
and (Chittenden). 1897. p. 67 Marl, region of. p. 389 Orchards in, injuries to, by red-legged flea-beetle (Schwarz). 1893. p. 334	A9.7:5
Peanut crop in. 1875. p. 512  Pleuro-pneumonia among cattle in, investigation of (Rose). p. 51.  Potomac lands of, for agricultural purposes. 1872. p. 16  San Jose scale in (Coquillett). 1894. pp. 253, 324  Southern cattle fever in (Rose). p. 461	A1.1:881-2 A27.9:10
Swine plague in (Payne). 1879. p. 165 same (Rose). p. 446 Tide-water region of. 1866. p. 413 Wheat culture in (Pleasants). 1869. p. 231	A1.6:12 A4.1:884 A27.9:4
See also Bedford — Charlottesville — Dismal swamp — James River — Morrisville — Norfolk — Prince Edward — Richmond — Skyland.  Virginia good roads convention, Richmond, Va., Oct. 10, 11, 1895:	,
Proceedings of. 1895	A22.3:11 A22.4:18

	IMUEX Classification no.
Viticulture:	
California. 1882. p. 99	A1.8:20
same (Sargent). p. 157	A1.8:22
Hungary, statistics of. 1876. p. 427  Quarantine rules of California. 1882. p. 166.	A27.9:14
Quarantine rules of California. 1882. p. 166	A1.8:20
Viviparous cockroach, report on (Riley), 1891, p. 443	A9.7:3
Vivisection in District of Columbia. 1896	A1.4:2
Determination of total, in butter (Goldmann). 1890. p. 112	A7.3:24
Fatty, of butter, contribution to study of (Spallanzani). 1890.	A7.3:24
Quantity of, present in butter fat (Vieth). 1890. p. 99.	A7.3:24 A7.3:24
Variations of, in butter fat (Menozzi). 1890. p. 111	A7.3:24 A7.3:24
Volcanic dust, note on. 1902. p. 369	
Volcanic eruptions, Hawaiian, report on (Lyons):	1120.0.00
1897. p. 144	A29.6:27
1897. p. 144 1899. p. 298	A29.6:27
Volcanic phenomena (Hobbs). 1902. p. 487	A29.6:30
	A5 5·17
American, of the genus Microtus, revision of (Bailey). 1900 Genera and subgenera of (Miller). 1896	A5 5·12
Volker, Hermann. Snow and ice measurements. 1889. p. 142	A29.3:24
Volta, memorial to (Abbe). 1898. p. 366	
Volumetric apparatus, committee on standards for, of Association of	
Official Agricultural Chemists, report on. 1897. p. 137	A7.3:51
Same. 1900. p. 146.	A7.3:62
Volumetric method of estimating phosphoric acid, Kilgore's modification of (Williams). 1901. p. 55	A7.3:62
Voluntary observers. See Weather observers, voluntary.	A1.0.02
Von Herrmann, C. F. North Carolina, climate and crops in. 1889-98.	
p. 544	A29.6:26
Von Lookren, C. J. Food, influence of, on composition of butter.	
Von Schrenk, Herman. See Schrenk, Herman von.	A7.3:24
Von Schweinitz. See De Schweinitz.	
Von Tavel, Franz. Pyrenomycetes, history of development of, con-	
tributions to. 1889. pp. 53, 113, 181	A28.5:5
voornees, Edward Burnett:	
Address of, as president of Association of Official Agricultural	
Chemists, at 11th annual meeting. 1894. p. 7.	A7.3:43
Agricultural Colleges, attitude of, toward university extension.	1.10.004
1894. p. 49 Commercial fertilizers, composition and use. 1896	A10.3:24
Commercial tertilizers, composition and use. 1896	A1.9:44
Farmers' institute as promoter of closer intimacy between farmers	
and experiment stations. 1902. p. 78	A10.3:99
Food and nutrition investigations in New Jersey in 1895 and 1896.	A10.3:35
Gunning-Kjeldahl method and a modification applicable in pres-	1110.0.00
ence of nitrates. 1892. p. 85	A7.3:35
Irrigation in New Jersey, report on—	
1900	A10.3:87
1902. p. 353	A10.3:119
Milk, quality of, should selling be regulated by? 1896. p. 91 New Jersey, farmers' institute work accomplished in. 1902. p. 37.	A10.3:41
New Jersey, farmers' institute work accomplished in. 1902. p. 37.	A10.3:120
Schools, public, how may farmers' organizations hasten teaching	440.0.400
of agriculture in? 1902. p. 89	A10.3:120
Tomato growing. 1898	A1.9:76
See also, as joint author, Phelps, C. S.	
Voorhees, Louis A.:  Broad process of making losses in 1800 p. 37	A10.3:67
Bread, process of making, losses in. 1899. p. 37	W10.9:01
Official Agricultural Chemists—	
1899. p. 101	A7.3:57
1899. p. 101 1900. p. 139	A7.3:62
1901. p. 87	A7.3:67

ABUCA	Classification no
Vose, Elisha C. Storage battery, use of, for electrical recording instruments. 1899. p. 300	A29.6:27
Voyle, Joseph: Scale insects affecting orange, experiments upon. 1883. p. 19	
Scale insects of orange in Florida, report on effects of cold upon. 1884. p. 70	8 •
Voyles, D. W.: Swine plague in Indiana—	110.0.1
1878. p. 421	A1.1:878
1879. p. 112	
Vuyst, Paul de:	A 10 R 0
Agricultural associations in Belgium. 1898. p. 3	
Wages:	`
Agricultural, in France, 1876. p. 421  Farm labor in United States—	
1890. p. 200	1000
1840-1892	
Farm laborers in United States—	
1867. p. 4	
1870. p. 3	A27.9:8 A27.9:13
Wagner, Balthasar. Rye gall-gnat, new crop, 1861, observations on,	
translated by C. F. Gissler. 1883. App., p. 8	A8.1:3
Wagner method of pot culture (Lindsey). 1897. p. 77	
Wahl, Robert. Indian corn (or maize) in manufacture of beer. 1893. Wait, Charles Edmund:	•
Dietary studies at University of Tennessee in 1895  Muscular work, experiments on effect of, upon digestibility of	A10.3:29
food and metabolism of nitrogen, conducted at University of Tennessee, 1897–1899	A10.3:89
same. 1899–1900	A10.3:117
Nutrition investigations at University of Tennessee in 1896 and 1897	A10.3:53
Wait, Robert E. Agriculture Department, work of, as illustrated at Atlanta Exposition. p. 503	A1.10:895
Waite, Merton Benway: Fungicides, experiments with, in removal of lichens from pear	
trees. 1891. p. 264.	A28.5:7
Pear blight, cause and prevention of. 1895. p. 295	A1.10:895
Pear culture, commercial. 1900. p. 369	A1.10:900 A28.5:7
Peronospora, two new species of, description of. 1891. p. 105	A28.5:7
Pollination of pear flowers	<b>A28.3:5</b>
Pollination of pomaceous fruits. 1898. p. 167.	A1.10:898
Wakker's hyacinth germ (Pseudomonas hyacinthi) (Smith). 1901 Waldo, Frank. Meteorology, theoretical, in United States, 1855 to	A28.3:26
1890, some remarks on. 1895. p. 317. Waldron, C. B. Grasshoppers in North Dakota, with introduction	A29.3:11 <sup>2</sup>
by H. E. Stockbridge. 1892. p. 13	
Walfinger, John F. Green manuring and manures. p. 299	
Walker, Philip: Serimeter, report of. 1889. p. 333	A9.7·1
Serrell automatic silk reel, report of. 1887. p. 52	A9.3:14
Serrell automatic silk reel, report of. 1887. p. 52	A1.1:888
same. p. 111 Silk culture by Department of Agriculture in 1887. p. 115	A9.1:888
Silk culture by Department of Agriculture in 1887. p. 115	A9.7:1
Silkworm, grasserie of. 1891. p. 445	A9.7:3
Silkworms, how to raise. 1890	A25.3:1
Theophila mandarina, history of, contribution to. 1889. p. 270 See also, for reports as Chief, Silk Section, Agriculture Depart-	
ment, 1889 and 1890. Wallace, Henry. Flax culture in Ireland and Belgium. 1892. p. 47.	A25.1: A11.5:4

	Classification no
Wallace, Paul. Silk culture, abstract of note on. 1891. p. 64	
Engineering-degree courses, four-year, what shall be the character of preparatory work required to enter? 1899. p. 75	A10.3:65
Irrigation in— Washington State, use of water in 1901. 1902. p. 191. Yakima Valley, Wash., use of water in. 1902. p. 241 Wallis, H. Sowerby. Rainfall and charts of rainfall. 1902. p. 228. Walnut spanworm, report on (Coquillett). 1897. p. 64 Walnuts. See English walnuts.	A10.3:104 A29.6:30
Walsh, Benjamin Dann, more important entomological writings of, bibliography of (Henshaw)	A9.2:B47 <sup>1</sup> 8
portant joint entomological writings of, bibliography of (Henshaw). 1889. p. 51	A9.2:B47 <sup>1-8</sup> A29.6:25
Argyresthia, notes on, with descriptions of new species. 1890. p. 117 Chambers's index of Tineina of U. S. and Canada, steps toward	A9.7:3
a revision of, with notes and descriptions of new species— 1888. v. 1. pp. 81, 113, 145, 254, 287. 1889-90. v. 2. pp. 23, 51, 77, 116, 150, 284, 322. 1891. v. 3. pp. 325, 386. 1892. v. 4. p. 384. Tortricid, new, from California, description of. 1891. p. 465. Waltemath's (George), moon, notes on (Abbe). 1898. p. 19	A9.7:3 A9.7:4 A9.7:3
Walz, Ferdinand J.: Chicago weather forecast district, monthly report of, Apr., July, Oct., 1901  same, Apr., 1902 Climate, studies of. 1899. p. 136 Meteorological and crop reporting stations, voluntary. 1898.	A29.6:29 A29.6:30 A29.3:24 A29.6:26
p. 208 Temperatures, study of, at Baltimore, Md. 1899. p. 293 Weather Bureau and the public, relations between. 1899. p. 12. Weather forecasts, general and local, relation between. 1902.	A29.6:27 A29.3:24
p. 117. Wamer, William D. American dried apples in Cologne. 1895. p. 14. Wappenhans, C. F. R., short biography of (Williams). 1902. p. 87. War debts, State. 1866. p. 93. Warbles in cattle. See Cattle. Ward, Edward G., jr. Railroad freight classifications, changes in,	A29.3:31 A7.3:48 A29.6:30 A27.9:4
Ward, Edward G., jr., and Holmes, Edwin S., jr. Garden truck, rates of charge for transporting, with notes on growth of the	A27.4:12
industry. 1901  Ward, H. Marshal. Smut fungi, report on. 1889. p. 87  Ward, Robert De Courcy:  Barograph curve, winter, from South Pacific ocean. 1897. p. 484.	A27.8:21 A28.5:5 A29.6:25
Clouds, cumulus, over a fire, observation of. 1898. p. 104	A29.6:26 A29.6:26 A29.3:9 A1.1:863
p. 184	A7.3:24 A1.1:862
Nitric acid in soils, determination of, by Schloesing's method, at Rothamsted Laboratory. 1886. p. 47	A7.3:11
tural Trust. 1892	A10.3:8
July and August, 1892 (Garriott). 1892. p. 223	A29.6:20

	Classification no
Warm wave—Continued	
March 27-29, 1895 (Abbe). p. 94. Washed soils; how to prevent and reclaim them. 1894.	A29.6:23
Washes. See San Jose scale.	A1.9:20
Washington, D. C.:  Elm leaf-beetle in (Marlatt). 1895. p. 47  Graduate study at—	A9.6:2
note on (Abbe). 1902. p. 134 report of committee of Association of Agricultural Colleges	A29.6:30
and Experiment Stations on. 1898. p. 58	A10.3:65
same. 1900. p. 55 Grape culture near. 1873. p. 282	A10.3:99
Grape culture near. 1873. p. 282	A27.9:11
Grass insects in, notes on (Osborn). 1891. p. 197	A9.7:4 A90 8:98
Optical phenomena at, Feb. 13, 1895 (Abbe). p. 56	
Precipitation at 1874–91. p. 79	A 29.6:20
Sewage deposit of, value of (Antisell). 1869. p. 228	A27.9:7
Thunderstorms near, report on (Cragin and Cragin). 1900. p.	A29.6:28
287 Trees of. 1891	A13.2:T71
University research at, note on (Abbe). 1901. p. 314	A29.6:29
Wind-rush at, Sept. 29, 1896 (Hazen). p. 322	
See also District of Columbia.	
Washington, Mount, fluctuations of temperature and pressure at base and summit of (Hazen). 1891. pp. 171, 199, 224, 250	A29.6:19
Agricultural notes on. 1866. p. 379	A27.9:4
Agricultural resources of (Ritz). 1869. p. 384*	A27.9:7
Agriculture in, statistics of (Simmons). 1869. p. 370	
Dark day in (Eells). 1902. p. 440. Farm resources and products of. 1868. p. 277	A29.6:30
Farm resources and products of. 1888. p. 277	A27.9:6 A10.3:120
Farmers' institute work accomplished in (Spillman). 1902. p. 43. Forests of (Brown). 1884. p. 388.	A13.5:4
Grasses of, plates and descriptions of (Vasey). 1892	A6.2:N82°
same	A6.3:13
Hop louse in, experiments with (Koebele). 1893. p. 12	
Irrigation in, use of water in, 1901 (Waller). 1902. p. 191	A10.3:119 A15.2:P94 <sup>1</sup>
Tide lands of (Morse). 1885. p. 62.	A1.7:7
Weather forecasts for, notes on, 1895-99 (Abbe). p. 313	A29.6:27
See also Pacific Northwest—Rainier, Mount—Spokane—Yakima Valley.	
Washington University testing laboratory, St. Louis, Mo., mechani-	A 19 9.0
cal tests of woods made at (Johnson). 1893. p. 3	A13.3:8 A4.5:42
Washouts, warnings of, for benefit of transportation companies (Smith). 1899. p. 37	A29.3:24
Same (Outram). 1899. p. 38	A29.3:24
Wasp. See Digger-wasp — Paper-making wasp. Wastes of London, method of disposing of (Manning). 1872. p. 379.	A27.9:10
See also Sewage. Water:	•
Administration in Utah (Gemmell). 1902. p. 159	A10.3:104
(Whitney)	A26.4:6
Amity Canal, Colorado, duty under (Berry). 1900. p. 159	A10.3:86
Atmospheric refractions at surface of (Abbe). 1896. p. 371	A29.6:24
Big Cottonwood Creek, Utah, duty of, 1899 (Gemmell). p. 197	A10.3:86 A10.3:104
same, 1900 (Gemmell). p. 165  Boise Valley, Idaho, duty of, as related to irrigation problems of	AIV.U.IVI
(Ross). 1900. p. 219	A10.3:86
(Ross). 1900. p. 219 Butter, water in. 1901. p. 30	A1.9:133
California, central, methods of applying, to land, as practiced in (Grunsky). 1891. Pt. 1. p. 307.  Capillary movement of, in dry and moist soils (Briggs and Lapbers). 1902. p. 10	A15.2:Ir72
ham). 1902. p. 19.	A26.3:19

	Classification no.
Water—Continued	
Destitute region (Curtiss). p. 230	A1.1:867
Distilled, for drinking purposes (Beal). 1901. p. 5	A1.9:124
Drinking, protection of, on farm (Smith). 1896	
Duty of, general instructions to observers (Mead). 1899	A10.8:2
Evaporation of, from soils, salts as influencing rate of (Briggs).	A1 0.04
1900. p. 184	A1.8:64
Factor in the growth of plants (Galloway and Woods). 1894.	A 1 10.004 '
p. 165 Gage Canal, Riverside, Cal., duty of, 1900 (Irving) 1902. p. 137.	A1.10:894
same, 1901 (Irving). p. 146	A10.3:119
Gallatin Valley Montana duty of (Fortier) 1900 n 175	A10.3:86
same, 1901 (Irving). p. 146	2210.0.00
effect of gales in causing (Abbe). 1894. p. 297	A29.6:21
studies on (Abbe). 1894. p. 372	A29.6:22
· Hot, frost protection by, note on (Abbe). 1900. p. 110	
Idaho, duty of (Ross), 1902, p. 221	A10.3:104
Irrigation, use of, report of investigations made in 1899, includ-	
ing reports of special agents and observers. 1900	A10.3:86
Kings River, Cal., appropriation (Grunsky). 1901. p. 259	A10.3:100
Lake, temperature of (Abbe). 1898. p. 167	A29.6:26
Laramie Plains, Wyo., duty of, 1899 (Fairfield). 1902. p. 215.	A10.3:104
Level of—	
fluctuation of—	1.00.0.00
Great Lakes (Guthrie). 1896. p. 420	A29.6:23
Lake Erie (Henry). 1902.	A29.5:J
in Great Salt Lake (Gilbert). 1901. p. 23	A29.0:29
same (Murdock). 1901. p. 22	A29.0:29 A1 10.000
Nebraska, duty of (Stout). 1900. p. 149.	A10.000
Physiological rôle of, in plants (Gain). 1897. p. 3	
Pure, on the farm, importance of. 1898. p. 3.	
Search for, use of divining rod in, note on (Abbe). 1900. p. 109.	A29.6:28
Supply of—	
and irrigation in Mexico. 1885. p. 223	A15.2:Ir71
notes on experience of other countries in administration of	
(McKinney). 1891. p. 261	A15.2:P94 <sup>1</sup>
Temperature of, in wells, notes on (Kimball). 1901. p. 510	A29.6:29
Temperatures of Great Lakes (Conger). 1899. p. 352	
Tule River Basin, Cal., duty of (Chandler). 1902. p. 159	A10.3:119 `
Use of, for irrigation at Wheatland, Wyo. (Johnston). 1902.	A10.0.104
p. 207. Vapor pressure for, notes on (Abbe). 1899. p. 476.	A10.3:104
Wyoming duty of (Johnston) 1900 n 171	A10.3:86
Wyoming, duty of (Johnston). 1900. p. 171. Yakima Valley, Wash., use of, in irrigation (Waller). 1902.	A10.5.00
p. 241	A 10.3:104
Yuba River, use of (Connick). 1901. p. 130	A10.3:100
See also Drainage water — Irrigation — Phreatic waters — and	
headings beginning Water.	
Water-bearing gravels and formations tributary to underground	
water supply of Salinas Valley, Monterey County, Cal.	
(Nutter). 1901. p. 208	A10.3:100
Water bug:	1074
Found by J. D. Zabriskie, note on (Bergroth). 1892. p. 321	A9.7:4
Interesting, report of. 1893. p. 188.	A9.7:0
Water glass, preserving eggs in (Beal). 1899. p. 17	A1.8:103
1897	
Water laws:	A0.0.10
	À10.3:58
Colorado (Field). 1899. p. 39	A10.3:58
Water rights:	
Canadian northwest irrigation act (Dennis). 1901. p. 11	A10.3:96
Interstate, in Bear River (Breckons). 1899. p. 26	A10.3:70
Irrigation and abstract of laws of States and Territories on	
(Critchett). 1893  Los Angeles River, Cal., study of (Boggs). 1901. p. 327	A15.3:1
Los Angeles River, Cal., study of (Boggs). 1901. p. 327	A10.3:100

Water rights—Continued   Missouri River and tributaries (Mead), 1899	Index	
Missourt River and tributaries (Mead). 1899	Water sights Continued	Classification no.
Problems of Bear River. (1899	Water rights—Continued Missouri River and tributaries (Mead) 1899	A10 3:58
Yuba River, Cal., features and (Manson). 1901. p. 115	Problems of Bear River. 1899	A 10.3:70
Water rotting heimp.         See Hemp.           Water storage, problems of, on torrential streams of Southern California as typified by Sweetwater and San Jacinto rivers (Schuyler), 1901. p. 353         A10.3:100           Water supply:         Bear River and its diversion (Johnston). 1899. p. 9.         A10.3:70           Conservative lumbering, and discussion of (Newell). 1801. p. 3.         A13.3:30           Depending on snowfall for, 1900 (Abbe). p. 493.         A29.6:28           Effect of forest clearing and cultivation on (Fulton). 1899. p. 89         A29.6:28           agen (Salisbury). 1899. p. 90.         A13.3:70           Influence of forests on (Fernow). p. 297         A1.8:89           Relation of, to animal diseases (Bitting). p. 471         A21.8:89           Relation to animal diseases. 1869. p. 17         A1.9:97           Subternanca, of San Bernardino Valley and its utilization, studies of (Hilgard). 1902. p. 103         A11.8:76           See also Water.         Waternanca, of San Bernardino Valley and its utilization, studies of (Hilling and protrance, etc. p. 289         A1.1:876           Waters, H. J.:         Apricultural colleges, what should be taught at? 1896. p. 73         A1.1:878           Waters, H. J.:         Agricultural colleges, what should be taught at? 1896. p. 73         A10.3:119           Waterspouts:         Cape May, N. J. 1902. p. 487         A29.6:30           Close range (Fassig).	Yuba River, Cal., features and (Manson). 1901. p. 115	A10.3:100
Water storage, problems of, on torrential streams of Southern California as typified by Sweetwater and San Jacinto rivers (Schuyler), 1901. p. 353   A10.3100   A10.3100   Conservative lumbering, and discussion of (Newell), 1901. p. 3   A13.3:30   Depending on smowfall for, 1900 (Abbe), p. 493.   A29.6:28   Effect of forest clearing and cultivation on (Fulton), 1899. p. 89   A29.3:24   same (Salisbury), 1899. p. 91   A29.3:24   Influence of forests on [Fernow], p. 297   A13.1:89   Relation of, to animal diseases (Bitting), p. 471   A4.1:89   Relation of to animal diseases (Bitting), p. 471   A4.1:89   Relation of forests to (Fernow), 1899. p. 123   A13.3:7   Relation to animal diseases (Bitting), p. 471   A4.1:89   Relation of forests to (Fernow), 1899. p. 123   A13.3:7   Subterranean, of San Bernardino Valley and its utilization, studies of (Hilgard), 1902. p. 103   A10.3:119   See also Water.   Waterhouse, Sylvester: Abutilon avicennse in New Jersey, cultivation of, letter relative to p. 606   A1.1:876   A1.1:876   A2.1:876		
Gornia as typified by Sweetwater and San Jacinto rivers (Schuyler), 1901. p. 553   A10.3:100	Water-rotting hemp. See Hemp.	
(Schuyler). 1901. p. 553	fornia as typified by Sweetwater and San Jacinto rivers	
Water supply:   Bear River and its diversion (Johnston), 1899, p. 9		A10.3:100
Conservative lumbering, and discussion of (Newell). 1901. p. 3. A13.3:30 Depending on snowfall for, 1900 (Abbe). p. 493. A26.6:28 Effect of forest clearing and cultivation on (Fulton). 1899. p. 89. A26.6:28 Influence of forests on (Fernow). p. 297. A13.3:34 Influence of forests on (Fernow). p. 297. A13.3:39 Relation of, to animal diseases (Btding). p. 471. A4.1:889 Relation to animal diseases. 1899. p. 17. A1.3:89 Relation to animal diseases. 1899. p. 17. A1.9:97 Subterranean, of San Bernardino Valley and its utilization, studies of (Hilgard). 1902. p. 103. A13.3:7 Subterranean, of San Bernardino Valley and its utilization, studies of (Hilgard). 1902. p. 103. A13.3:7  Waterhouse, Sylvester: Abution avicennæ in New Jersey, cultivation of, letter relative to. p. 606 Jute culture— importance of the industry. 1883. A1.8:30 national importance, etc. p. 289. A1.1:876 Watering troughs for teams. 1870. p. 89. A27.9:8 Watermelon, wilt disease of (Smith). 1899. A22.3:17 Waters, H. J: Agricultural colleges, what should be taught at? 1896. p. 73. A10.3:41 Irrigation experiments at Missouri Experiment Station, 1901. 1902. p. 305. A29.6:30 Cloudburst, or tornado, note on (Abbe). 1897. p. 207. A29.6:30 Cloudburst, or tornado, note on (Abbe). 1897. p. 207. A29.6:25 Great Lakes, notes on (Abbe). 1898. p. 364. A29.6:26 Key West, Fla. (Boynton). 1899. p. 351. A29.6:26 Sam Diego, report on (Carpenter). 1898. p. 545. A29.6:28 Sam Diego, report on (Carpenter). 1898. p. 545. A29.6:28 Sam Diego, report on (Carpenter). 1898. p. 545. A29.6:28 Sam Diego, report on (Carpenter). 1898. p. 545. A29.6:28 Sam Diego, report on (Carpenter). 1898. p. 545. A29.6:28 Sam Diego, report on (Carpenter). 1898. p. 545. A29.6:28 Sam Diego, report on (Carpenter). 1898. p. 545. A29.6:28 Sam Diego, report on (Carpenter). 1898. p. 545. A29.6:28 Sam Diego, report on (Carpenter). 1898. p. 545. A29.6:28 Sam Diego, report on Carpenter). 1898. p. 545. A29.6:28 Sam Diego, report on Carpenter). 1898. p. 545. A29.6:28 Sam Diego, report on Carpenter). 1898. p. 547.8:1	Water supply:	
Depending on snowfall for, 1900 (Abbe). p. 493.   A20, 324	Bear River and its diversion (Johnston). 1899. p. 9	A10.3:70
Effect of forest clearing and cultivation on (Fulton). 1899. p. 9. 429.3:24  Influence of forests on (Fernow). p. 297	Conservative lumbering, and discussion of (Newell). 1901. p. 3.	A13.3:30
Same (Salisbury). 1896. p. 91   A29.3:24	Effect of forest clearing and cultivation on (Rulton) 1899 in 89	A29.0:28 A90 3.94
Influence of forests on (Fernow) p. 297		
Relation of, to animal diseases (Bitting). p. 471	Influence of forests on (Fernow). p. 297	A13.1:889
Relation to animal diseases   1899   p. 17	Relation of, to animal diseases (Bitting). p. 471	A4.1:899
Subterranean, of San Bernardino Valley and its utilization, studies of (Hilgard). 1902. p. 103.  See also Water.  Waterhouse, Sylvester: Abutilon avicennæ in New Jersey, cultivation of, letter relative to. p. 606. Jute culture— importance of the industry. 1883	Relation of forests to (Fernow). 1893. p. 123	A13.3:7
of (Hilgard). 1902. p. 103	Subterranean of San Remarding Valley and its utilization studies	A1.9:97
See also Water   Waterhouse, Sylvester: Abutilon avicennæ in New Jersey, cultivation of, letter relative to. p. 606   Jute culture— importance of the industry. 1883   A1.8:30   A1.1:876   Matering troughs for teams. 1870. p. 89   A27.9:3   Watermelon, wilt disease of (Smith). 1899   A28.3:17   Waters, H. J.: Agricultural colleges, what should be taught at? 1896. p. 73   A10.3:41   Irrigation experiments at Missouri Experiment Station, 1901. 1902. p. 305   A29.6:30   A10.3:119   A29.6:20   A29.6:30   Close range (Fassig). 1902. p. 302   A29.6:30   A29.6:30   Close range (Fassig). 1902. p. 302   A29.6:30   A29.6:25   Great Lakes, notes on (Abbe). 1898. p. 381   A29.6:25   A29.6:25   A29.6:25   A29.6:25   A29.6:25   A29.6:25   A29.6:26   A	of (Hilgard). 1902. p. 103	A10.3:119
Abutilon avicennæ in New Jersey, cultivation of, letter relative to. p. 606  Jute culture— importance of the industry. 1883 national importance, etc. p. 289  A1.1:876 Watering troughs for teams. 1870. p. 89. Watermelon, wilt disease of (Smith). 1899  Waters, H. J.: Agricultural colleges, what should be taught at? 1896. p. 73. Lirigation experiments at Missouri Experiment Station, 1901. 1902. p. 305  Waterspouts: Cape May, N. J. 1902. p. 487. Close range (Fassig). 1902. p. 302  Cloudburst, or tornado, note on (Abbe). 1897. p. 207. A29.6:30  Cloudburst, or tornado, note on (Abbe). 1897. p. 207. A29.6:25 Great Lakes, notes on (Abbe). 1898. p. 364  Key West, Fla. (Boynton). 1899. p. 351  Long Island (Abbe). 1897. p. 207. A29.6:25  Norfolk, Va., on Aug. 6, 1901 (Gray). p. 372  Notes on (Abbe). 1898. pp. 67, 261  Same (Abbe). 1900. p. 115  Same (Abbe). 1900. p. 115  September 29, 1898, note on (Abbe). p. 567  A29.6:28  Sant Diego, report on (Carpenter). 1898. p. 645  September 29, 1898, note on (Abbe). p. 567  A29.6:28  Waterworks east of arid regions having supply from artesian and underflow sources. 1891. pt. 1, p. 433  Watkins, James L: Cotton—  American, future demand for. 1901. p. 193  A27.4:4  1896-97  A27.4:4  1896-97  A27.4:9  1898-99  A27.4:9  1899-1900  A27.8:19  Cotton production, cost of. 1899  A27.4:1  1899-1900  A27.8:19  Cotton production, cost of. 1899  A27.8:19  Cotton production into Southern States (Keffer). 1895. p. 19  Wattle tree, introduction into Southern States (Keffer). 1895. p. 19  Wattle tree, introduction into Southern States (Keffer). 1895. p. 19  Wattle tree, introduction into Southern States (Keffer). 1895. p. 19  Mattle tree, introduction into Southern States (Keffer). 1895. p. 19  Wattle tree, introduction into Southern States (Keffer). 1895. p. 19  Wattle tree, introduction into Southern States (Keffer). 1895. p. 19  Mattle tree, introduction into Southern States (Keffer). 1895. p. 19  Mattle tree, introduction into Southern States (Keffer). 1895. p. 19		
to. p. 606 Jute culture— importance of the industry. 1883 national importance, etc. p. 289 Matering troughs for teams. 1870. p. 89.  Watering troughs for teams. 1870. p. 89.  Waters, H. J.: Agricultural colleges, what should be taught at? 1896. p. 73. Irrigation experiments at Missouri Experiment Station, 1901. 1902. p. 305.  Waterspouts: Cape May, N. J. 1902. p. 487. Close range (Fassig). 1902. p. 302.  Cloudburst, or tornado, note on (Abbe). 1897. p. 207.  Close range (Fassig). 1902. p. 302.  Cloudburst, or tornado, note on (Abbe). 1897. p. 207.  A29.6:25 Great Lakes, notes on (Abbe). 1898. p. 364.  Key West, Fla. (Boynton). 1899. p. 351.  Long Island (Abbe). 1897. p. 207.  Norfolk, Va., on Aug. 6, 1901 (Gray). p. 372.  Notes on (Abbe). 1898. pp. 67, 261.  San Diego, report on (Carpenter). 1898. p. 545.  San Diego, report on (Carpenter). 1898. p. 545.  Waterworks east of arid regions having supply from artesian and underflow sources. 1891. pt. 1., p. 433.  Watkins, James L.: Cotton—  American, future demand for. 1901. p. 193.  American, future demand for. 1901. p. 193.  A27.8:9  Same, abstract.  Cotton—  American, future demand for. 1901. p. 193.  A27.8:9  1896-97.  1895-  247.4:4  1896-97.  1899-1900.  A27.8:19  Cotton production, cost of. 1899.  Cotton production, cost of. 1899.  Cotton production, cost of. 1899.  Cotton production, cost of. 1899.  Cotton production into Southern States (Keffer). 1895. p. 19.  Wattle tree, introduction into Southern States (Keffer). 1895. p. 19.  Wattle tree, introduction into Southern States (Keffer). 1895. p. 19.  Wattle tree, introduction into Southern States (Keffer). 1895. p. 19.  Wattle tree, introduction into Southern States (Keffer). 1895. p. 19.  Wattle tree, introduction into Southern States (Keffer). 1895. p. 19.  Wattle tree, introduction into Southern States (Keffer). 1895. p. 19.  Wattle tree, introduction into Southern States (Keffer). 1895. p. 19.  Wattle tree, introduction into Southern States (Keffer). 1895. p. 19.  Wattle tree, introduction into Southern	Waterhouse, Sylvester:	
Jute culture— importance of the industry. 1883   A1.8:30   national importance, etc. p. 289   A1.1:876   A27.9:38   Watering troughs for teams. 1870. p. 89   A27.9:38   Watering troughs for teams. 1870. p. 89   A27.9:38   Watering troughs for teams. 1870. p. 89   A28.3:17   Waters, H. J.:   Agricultural colleges, what should be taught at? 1896. p. 73   A10.3:41   Irrigation experiments at Missouri Experiment Station, 1901. 1902. p. 305   A10.3:119     Waterspouts:   Cape May, N. J. 1902. p. 487   A29.6:30   A29.6:30   Close range (Fassig). 1902. p. 302   A29.6:30   A29.6:30   Cloudburst, or tornado, note on (Abbe). 1897. p. 207   A29.6:25   A29.6:26   Key West, Fla. (Boynton). 1899. p. 351   A29.6:26   A29.6:26   Key West, Fla. (Boynton). 1899. p. 351   A29.6:27   A29.6:27   Long Island (Abbe). 1897. p. 207   A29.6:29   Notes on (Abbe). 1898. pp. 67, 261   A29.6:29   Notes on (Abbe). 1898. pp. 67, 261   A29.6:29   Notes on (Abbe). 1898. pp. 67, 261   A29.6:28   San Diego, report on (Carpenter). 1898. p. 545   A29.6:28   September 29, 1898, note on (Abbe). p. 567   A29.6:28   September 29, 1898, note on (Abbe). p. 567   A29.6:28   September 29, 1898, note on (Abbe). p. 567   A29.6:28   A29.6:29   A29.		A 1 1 070
importance of the industry. 1883		A1.1:878
mational importance, etc. p. 289		A1.8:30
Watering troughs for teams. 1870. p. 89.       A27.9:8         Waternelon, wilt disease of (Smith). 1899.       A28.3:17         Waters, H. J.:       Agricultural colleges, what should be taught at? 1896. p. 73       A10.3:41         Irrigation experiments at Missouri Experiment Station, 1901. 1902. p. 305       A10.3:119         Waterspouts:       Cape May, N. J. 1902. p. 487	national importance, etc., p. 289	A1.1:876
Waters, H. J.:       Agricultural colleges, what should be taught at? 1896. p. 73       A10.3:41         Irrigation experiments at Missouri Experiment Station, 1901.       1902. p. 305       A10.3:119         Waterspouts:       Cape May, N. J. 1902. p. 487       A29.6:30         Close range (Fassig). 1902. p. 302       A29.6:30         Cloudburst, or tornado, note on (Abbe). 1897. p. 207       A29.6:26         Great Lakes, notes on (Abbe). 1898. p. 364       A29.6:26         Key West, Fla. (Boynton). 1899. p. 351       A29.6:27         Long Island (Abbe). 1897. p. 207       A29.6:28         Norfolk, Va., on Aug. 6, 1901 (Gray). p. 372       A29.6:28         San Diego, report on (Carpenter). 1898. p. 545       A29.6:28         San Diego, report on (Carpenter). 1898. p. 545       A29.6:28         September 29, 1898, note on (Abbe). p. 567       A29.6:28         Waterworks east of arid regions having supply from artesian and underflow sources. 1891. pt. 1., p. 433       A11.0:901         Watkins, James L.:       Cotton—         Cotton—       American, future demand for. 1901. p. 193       A1.10:901         A27.8:9       A27.8:9         1896-97       A27.8:1         1898-99       A27.8:1         1898-99       A27.8:1         1899-1900       A27.8:	Watering troughs for teams. 1870. p. 89	A27.9:8
Agricultural colleges, what should be taught at? 1896. p. 73 A10.3:41 Irrigation experiments at Missouri Experiment Station, 1901. 1902. p. 305	Watermelon, wilt disease of (Smith). 1899	A28.3:17
Irrigation experiments at Missouri Experiment Station, 1901. 1902. p. 305   A10.3:119	Waters, H. J.:  Agricultural colleges what should be tought at? 1906 - n. 72	A 10 2.41
Total	Irrigation experiments at Missouri Experiment Station, 1901.	M10.5.41
Waterspouts:       Cape May, N. J. 1902. p. 487.       A29.6:30         Cloed range (Fassig). 1902. p. 302.       A29.6:30         Cloudburst, or tornado, note on (Abbe). 1897. p. 207.       A29.6:25         Great Lakes, notes on (Abbe). 1898. p. 364       A29.6:26         Key West, Fla. (Boynton). 1899. p. 351       A29.6:26         Long Island (Abbe). 1897. p. 207.       A29.6:25         Norfolk, Va., on Aug. 6, 1901 (Gray). p. 372       A29.6:25         Notes on (Abbe). 1898. pp. 67, 261       A29.6:28         same (Abbe). 1900. p. 115       A29.6:28         San Diego, report on (Carpenter). 1898. p. 545       A29.6:28         September 29, 1898, note on (Abbe). p. 567       A29.6:28         Waterworks east of arid regions having supply from artesian and underflow sources. 1891. pt. 1., p. 433       A15.2:Ir7*         Watkins, James L.:       Cotton—		A10.3:119
Close range (Fassig). 1902. p. 302. A29.6:30 Cloudburst, or tornado, note on (Abbe). 1897. p. 207. A29.6:25 Great Lakes, notes on (Abbe). 1898. p. 364. A29.6:26 Key West, Fla. (Boynton). 1899. p. 351. A29.6:26 Norfolk, Va., on Aug. 6, 1901 (Gray). p. 372. A29.6:25 Norfolk, Va., on Aug. 6, 1901 (Gray). p. 372. A29.6:25 Notes on (Abbe). 1898. pp. 67, 261. A29.6:28 same (Abbe). 1900. p. 115. A29.6:28 San Diego, report on (Carpenter). 1898. p. 545. A29.6:28 September 29, 1898, note on (Abbe). p. 567. A29.6:26 Waterworks east of arid regions having supply from artesian and underflow sources. 1891. pt. 1., p. 433. A29.6:26 Watkins, James L.: Cotton—  American, future demand for. 1901. p. 193. A1.10:901 production and price of, for 100 years. 1895. A27.8:9 same, abstract. A27.8:C82 Cotton crop of— 1895— A27.8:C82 Cotton crop of— 1896–97 A27.8:17 1899–1900 A27.8:17 1899–1900 A27.8:19 Cotton production, cost of. 1899. A27.8:19 Cotton production, cost of. 1899. A27.8:19 Wattle bark or mimosa bark, report on. p. 507. A27.8:19 Wattle tree, introduction into Southern States (Keffer). 1895. p. 19. Watts, Frederick: Address at— Minnesota State Fair, St. Paul, 1872. p. 347. A27.9:10 Philadelphia, Pa., July 4, 1875, at breaking ground for erec-	Waterspouts:	
Cloudburst, or tornado, note on (Abbe). 1897. p. 207. A29.6:25 Great Lakes, notes on (Abbe). 1898. p. 364. A29.6:26 Key West, Fla. (Boynton). 1899. p. 351. A29.6:27 Long Island (Abbe). 1897. p. 207. A29.6:25 Norfolk, Va., on Aug. 6, 1901 (Gray). p. 372. A29.6:29 Notes on (Abbe). 1898. pp. 67, 261. A29.6:28 same (Abbe). 1900. p. 115. A29.6:28 San Diego, report on (Carpenter). 1898. p. 545. A29.6:28 September 29, 1898, note on (Abbe). p. 567. A29.6:26 Waterworks east of arid regions having supply from artesian and underflow sources. 1891. pt. 1., p. 433. A15.2:Ir72 Watkins, James L.: Cotton—  American, future demand for. 1901. p. 193. A27.8:9 same, abstract A27.8:2 Cotton crop of— 1895. A27.4:4 1898-97. A27.9:35 1897-98. A27.4:9 1898-99. A27.8:17 1899-1900. A27.8:19 Cotton production, cost of. 1899. A27.8:19 Cotton production, cost of. 1899. A27.8:19 Watson, George Catchpole. Fowls, care and feeding. 1896. A1.9:41 Wattle bark or mimosa bark, report on. p. 507. A27.8:18 Wattle tree, introduction into Southern States (Keffer). 1895. p. 19. Watts, Frederick: Address at— Minnesota State Fair, St. Paul, 1872. p. 347. A27.9:10 Philadelphia, Pa., July 4, 1875, at breaking ground for erec-	Cape May, N. J. 1902. p. 487	A29.6:30
Great Lakes, notes on (Abbe). 1898. p. 364 Key West, Fla. (Boynton). 1899. p. 351 Long Island (Abbe). 1897. p. 207	Cloudburst or tornado note on (Abba) 1807 n 207	A29.0:30 A 90 A 95
Key West, Fla. (Boynton). 1899. p. 351       A29.6:27         Long Island (Abbe). 1897. p. 207       A29.6:25         Norfolk, Va., on Aug. 6, 1901 (Gray). p. 372       A29.6:28         Notes on (Abbe). 1898. pp. 67, 261       A29.6:28         same (Abbe). 1900. p. 115       A29.6:28         San Diego, report on (Carpenter). 1898. p. 545       A29.6:28         September 29, 1898, note on (Abbe). p. 567       A29.6:28         Waterworks east of arid regions having supply from artesian and underflow sources. 1891. pt. 1., p. 433       A15.2:Ir7²         Watkins, James L.:       Cotton—         American, future demand for. 1901. p. 193       A1.10:901         production and price of, for 100 years. 1895       A27.8:9         same, abstract       A27.8:0         Cotton crop of—       1896-97         1896-97       A27.4:9         1898-99       A27.4:9         1899-1900       A27.8:17         Cotton production, cost of. 1899       A27.8:16         Watson, George Catchpole. Fowls, care and feeding. 1896.       A1.9:41         Wattle bark or mimosa bark, report on. p. 507       A1.1:878         Wattle tree, introduction into Southern States (Keffer). 1895. p. 19.       A27.9:10         Philadelphia, Pa., July 4, 1875, at breaking ground for erec-	Great Lakes notes on (Abbe) 1898 in 364	A 29 R 28
Norfolk	Key West, Fla. (Boynton). 1899. p. 351	A29.6:27
Notes on (Abbe). 1898. pp. 67, 261  same (Abbe). 1900. p. 115  San Diego, report on (Carpenter). 1898. p. 545.  September 29, 1898, note on (Abbe). p. 567.  Waterworks east of arid regions having supply from artesian and underflow sources. 1891. pt. 1., p. 433.  Watkins, James L.:  Cotton—  American, future demand for. 1901. p. 193.  production and price of, for 100 years. 1895.  same, abstract.  Cotton crop of—  1895.  1897-98  1898-99  1898-99  1898-99  Cotton production, cost of. 1899.  Cotton production, cost of. 1899.  Cotton production, cost of. 1899.  Watson, George Catchpole. Fowls, care and feeding. 1896.  Wattle tree, introduction into Southern States (Keffer). 1895. p. 19.  Wattle, Frederick:  Address at—  Minnesota State Fair, St. Paul, 1872. p. 347.  Philadelphia, Pa., July 4, 1875, at breaking ground for erec-	Long Island (Abbe). 1897. p. 207.	A29.6:25
same (Abbe). 1900. p. 115       A29.6:28         San Diego, report on (Carpenter). 1898. p. 545       A29.6:26         September 29, 1898, note on (Abbe). p. 567       A29.6:26         Waterworks east of arid regions having supply from artesian and underflow sources. 1891. pt. 1., p. 433       A15.2:Ir7²         Watkins, James L.:       Cotton—         American, future demand for. 1901. p. 193       A1.10:901         production and price of, for 100 years. 1895.       A27.8:9         same, abstract       A27.8:0         Cotton crop of—       A27.4:4         1896-97       A27.4:4         1898-99       A27.4:1         1899-1900       A27.8:17         Cotton production, cost of. 1899       A27.8:16         Watson, George Catchpole. Fowls, care and feeding. 1896.       A1.1:878         Wattle tree, introduction into Southern States (Keffer). 1895. p. 19       A1.1:878         Wattle tree, introduction into Southern States (Keffer). 1895. p. 19       A27.9:10         Philadelphia, Pa., July 4, 1875, at breaking ground for erec-       A27.9:10	Norfolk, Va., on Aug. 6, 1901 (Gray). p. 372	A29.6:29
San Diego, report on (Carpenter). 1898. p. 545. A29.6:26 September 29, 1898, note on (Abbe). p. 567. A29.6:26 Waterworks east of arid regions having supply from artesian and underflow sources. 1891. pt. 1., p. 433. A15.2:Ir7² Watkins, James L.: Cotton—  American, future demand for. 1901. p. 193. A1.10:901 production and price of, for 100 years. 1895. A27.8:9 same, abstract. A27.8:2 Cotton crop of— 1895. A27.4:4 1896-97. A27.9:35 1897-98. A27.4:9 1898-99. A27.8:17 1899-1900. A27.8:17 1899-1900. A27.8:16 Watson, George Catchpole. Fowls, care and feeding. 1896. A1.9:41 Wattle bark or mimosa bark, report on. p. 507. A27.8:19 Wattle tree, introduction into Southern States (Keffer). 1895. p. 19. Watts, Frederick: Address at— Minnesota State Fair, St. Paul, 1872. p. 347. A27.9:10	Notes on (Abba) 1898. pp. 67, 201	A29.0:20 A20 R.29
September 29, 1898, note on (Abbe). p. 567   A29.6:26	San Diego, report on (Carpenter), 1898, p. 545	A29.6:26
Waterworks east of arid regions having supply from artesian and underflow sources. 1891. pt. 1., p. 433.       A15.2:Ir7²         Watkins, James L.:       American, future demand for. 1901. p. 193.       A1.10:901         American, future demand for. 1901. production and price of, for 100 years. 1895.       A27.8:9         Same, abstract       A27.8:282         Cotton crop of—       A27.4:4         1896-97       A27.4:9         1898-99       A27.8:17         1899-1900       A27.8:18         Cotton production, cost of. 1899       A27.8:18         Watson, George Catchpole. Fowls, care and feeding. 1896.       A1.9:41         Wattle bark or mimosa bark, report on. p. 507       A1.1:878         Wattle tree, introduction into Southern States (Keffer). 1895. p. 19.       A13.3:11         Watts, Frederick:       Address at—        Minnesota State Fair, St. Paul, 1872. p. 347       A27.9:10         Philadelphia, Pa., July 4, 1875, at breaking ground for erec-       A27.9:10	September 29, 1898, note on (Abbe). p. 567	A29.6:26
Watkins, James L.:       Cotton—         American, future demand for. 1901. p. 193       A1.10:901         production and price of, for 100 years. 1895.       A27.8:9         same, abstract.       A27.8:C82         Cotton crop of—       A27.4:4         1896—97       A27.9:35         1897—98       A27.4:9         1898—99       A27.8:17         1899—1900       A27.8:18         Watson, George Catchpole. Fowls, care and feeding. 1896.       A1.9:41         Wattle bark or mimosa bark, report on. p. 507       A1.1:878         Wattle tree, introduction into Southern States (Keffer). 1895. p. 19.       A13.3:11         Watts, Frederick:       Address at—         Minnesota State Fair, St. Paul, 1872. p. 347       A27.9:10         Philadelphia, Pa., July 4, 1875, at breaking ground for erec-	Waterworks east of arid regions having supply from artesian and	4.5.0.7.50
Cotton—     American, future demand for. 1901. p. 193		A15.2:1r7*
American, future demand for. 1901. p. 193	±.	
production and price of, for 100 years. 1895	•	A1.10:901
Cotton crop of—  1895  1896-97  1897-98  1899-1900  Cotton production, cost of. 1899  Cotton production, cost of. 1899  Watson, George Catchpole. Fowls, care and feeding. 1896.  Wattle bark or mimosa bark, report on. p. 507  Wattle tree, introduction into Southern States (Keffer). 1895. p. 19  Watts, Frederick:  Address at—  Minnesota State Fair, St. Paul, 1872. p. 347  Philadelphia, Pa., July 4, 1875, at breaking ground for erec-	production and price of, for 100 years. 1895	A27.8:9
1895		A27.8*:C82
1896–97 1897–98 1898–99 1899–1900 Cotton production, cost of. 1899 Watson, George Catchpole. Fowls, care and feeding. 1896. Wattle bark or mimosa bark, report on. p. 507 Wattle tree, introduction into Southern States (Keffer). 1895. p. 19 Watts, Frederick: Address at— Minnesota State Fair, St. Paul, 1872. p. 347 Philadelphia, Pa., July 4, 1875, at breaking ground for erec-		A 97 A · A
1897-98 1898-99 1899-1900 Cotton production, cost of. 1899 Watson, George Catchpole. Fowls, care and feeding. 1896. Wattle bark or mimosa bark, report on. p. 507 Wattle tree, introduction into Southern States (Keffer). 1895. p. 19 Watts, Frederick: Address at— Minnesota State Fair, St. Paul, 1872. p. 347 Philadelphia, Pa., July 4, 1875, at breaking ground for erec-		
Cotton production, cost of. 1899  Watson, George Catchpole. Fowls, care and feeding. 1896		
Watson, George Catchpole. Fowls, care and feeding. 1896		
Watson, George Catchpole. Fowls, care and feeding. 1896		A27.8:19
Wattle bark or mimosa bark, report on. p. 507  Wattle tree, introduction into Southern States (Keffer). 1895. p. 19.  Watts, Frederick:  Address at—  Minnesota State Fair, St. Paul, 1872. p. 347  Philadelphia, Pa., July 4, 1875, at breaking ground for erec-	Watson, George Catchnole Fowls care and feeding 1904	A1.9:41
Watts, Frederick: Address at— Minnesota State Fair, St. Paul, 1872. p. 347	Wattle bark or mimosa bark, report on. p. 507	A1.1:878
Watts, Frederick: Address at— Minnesota State Fair, St. Paul, 1872. p. 347	Wattle tree, introduction into Southern States (Keffer). 1895. p. 19.	A13.3:11
Minnesota State Fair, St. Paul, 1872. p. 347	Watts, Frederick:	
Philadelphia, Pa., July 4, 1875, at breaking ground for erec-		A 97 0.10
tion of Agricultural Hall for the Centennial. p. 440 A27.9:13	Philadelphia Pa July 4 1875 at breaking ground for area.	A21.8:10
	tion of Agricultural Hall for the Centennial. p. 440	A27.9:13

Classification no.

	Classification no.
Watts, Frederick—Continued	
Agricultural implements. 1872. p. 352	A27.9:10
Appointment of, as Commissioner of Agriculture. 1871. p. 255.	A27.9:9
Blackleg among cattle, letter on. 1874. p. 157	A27.9:12
Cotton—	
American, deterioration of. 1873. p. 253	A27.9:11
new process of utilizing. 1876. p. 400.	A27.9:14
Cotton and sugar cane, deterioration of. 1872. p. 211	A27.9:10
Desiccation of fruits and vegetable. 1875. p. 507	A27.9:13
Epizootics among swine. 1872. p. 214	A27.9:10
Grain, cross-breeding of. 1876. p. 191	A27.9:14
Lime and its use. 1874. p. 449	A27.9:12
Osier willow. 1873. p. 419	A27.9:11
Pennsylvania barn, description of. p. 289	A1.1:864
Southern planting and Northern farming. 1872. p. 207	A27.9:10
Wheat, cultivation and hybridizing of. 1872. p. 432	A27.9:10
See also, for reports as Commissioner of Agriculture, 1871–1876	A1.1:
Watts, Harvey Maitland:	
Gulf Stream myth, report on. 1900. p. 393	A29.6:28
Public and weather forecaster: read before convention of Weather	
Bureau officials. 1901. p. 142	A29.3:31
Remarks of, at second convention of Weather Bureau officials,	
Milwaukee, Wis. 1901. p. 236	· <b>A29.3:31</b>
Tornado, hurricane, and cyclone, report on. 1899. p. 307	A29.6:27
Weather forecaster and newspaper; read before convention of	
Weather Bureau officials. 1901	A29.2:F76
same. p. 43. Watts, J. Wash. Sheep husbandry in South Carolina, Georgia, and	A29.3:31
Watts, J. Wash. Sheep husbandry in South Carolina, Georgia, and	
Texas. 1877. p. 118.	A1.2:Sh3
Texas. 1877. p. 118	A1.9:39
Wave, storm, at Sausalito, California (Abbe). 1895. p. 424	A29.6:23
Waves:	
Lake level pressure, sudden oscillations in (Henry). 1899. p. 305.	A29.6:27
Storm, on Great Lakes and ocean (Abbe). 1895. p. 341	
See also Cold waves.	
Wax. See Bees.	
Weasels of North America, synopsis of (Merriam). 1896	A5.5:11
Weather:	
August, on Pacific coast, notes on (Abbe). 1899. p. 421	A29.6:27
Bulletins of daily, publication of (Scott). 1894. p. 6	A29.3:11 <sup>1</sup>
Cablegrams from Azores relative to, note on (Abbe). 1900. p.	
253	A29.6:28
Changes of, report on (Richards). 1898. p. 106	A29.6:26
Characteristics of the, monthly notes on, July, 1891-May, 1895	
Climate vs., note on (Abbe). 1899. p. 62	A29.6:27
Cold—	
blessing of (Abbe). 1899. p. 63	A29.6:27
in March in Maryland, records of, 1823–94 (Acworth). p. 126.	
Conduct and, report on (Dexter). 1899. p. 353	A29.6:27
Correlation of, in distant localities, notes on (Abbe). 1900. p. 554.	A29.6:28
Dairy and, note on (Abbe). 1899. p. 475	A29.6:27
Dairy cow and the. 1902. p. 28	A1.9:149
Determining instruments, corrections, methods of reduction,	
resulting accuracy (Abbe). p. 37	
Distant regions, notes on (Abbe). 1895. pp. 337, 381	A29.6:23
same (Abbe). 1901. p. 74	A29.6:29
Effect of, on birds (Smith). 1895. p. 212	A29.6:23
European and American correspondences in, 1895 (Abbe). p. 56.	A29.6:23
Hot, of August, 1900 (Henry). p. 333	A29.6.28
Hot, of August, 1900 (Henry). p. 333 Insects and, during season of 1899 (Chittenden). p. 51	A9.6:22
same, 1900 (Chittenden). p. 63.  Live stock industry and, report on (Brandenburg). 1900. p. 588.	A9.6:30
Live stock industry and, report on (Brandenburg). 1900. p. 588.	A29.6:27
Malta during October, 1898 (Grout). p. 546	A29.6:26
Malta during October, 1898 (Grout). p. 546  Mauritius sugar crop and, 1880-96 (Abbe). p. 412	A29.6:26
Monthly notes on, June, 1863, to Jan., 1872	A27.9:
Monthly statement of average conditions of— August, 1898 (Abbe). p. 342	
August, 1898 (Abbe). p. 342	A29.6:28
· · · · · · · · · · · · · · · · · · ·	•

Index	Classification no.
Weather—Continued	
Monthly statement of average conditions of—Continued	
September, 1898 (Garriott). p. 395	A29.6:28
October, 1898 (Garriott). p. 430	A 29.6:28
November, 1898 (Garriott). p. 483	A29.6:28
December, 1898 (Garriott). p. 538	A29.6:28
January, 1899 (Garriott). p. 21	A29.6:29
February, 1899 (Garriott). p. 57	
March, 1899 (Garriott). p. 117	
May, 1899 (Garriott). p. 208.	A29.6:29
June, 1899 (Garriott). p. 258	A29.6:29
July, 1899 (Garriott). p. 307	A29.6:29
See also Weather of the month.	
Moon and, note on, relation of—	100 000
1891 (Meech). p. 372	A29.0:79
1898 (Abbe). p. 569. 1901 (Abbe). pp. 121, 374.	A29.6:29
Notes on—	A20.0.20
1895. p. 554	A1.10:895
1896. p. 600	
1897. p. 689	A1.10:897
Operations of, simultaneous, charting. 1902. p. 369	
Records of, old, note on (Abbe). 1897. p. 398	A29.6:25
Report of, 1897 (Henry). p. 261	A29.1:898
Signs and, note on (Kimball). 1901. p. 508. Study of sky polarization with reference to (Schultz). 1902. p. 28.	A29.6:29
Sun spots and—	A20.0.01
connection between (Bigelow). 1895. p. 91	A29.6:23
report on (Kimball). 1901. p. 248	A29.6:29
Topic of conversation (Brendle). 1899. p. 160	A29.3:24
Train loads, fixed by. 1902. p. 444.	A29.6:30
Transatlantic, note on (Abbe). 1900. p. 554	A29.6:28
Unseasonable in United States (Garriott). 1902. p. 301	A29.6:30
See also Barometer — Meteorology — Summer — Warm wave — Winter.	•
Weather and crop conditions:	
1891. (Dunwoody). p. 586	A1.1:891
same, p. 586	A29.1:891 *
1892. p. 578	A1.1:892
same, p. 578	A29.1:892
1893. p. 113	A1.1:893
1894. (Dunwoody). p. 529	A1 10.804
1898. p. 627	A1 10:898
1899. p. 720	A1.10:899
1900. p. 696	
1901. p. 641	A1.10:901
Weather and its effect on the farm, Jan., 1864. No. 1. p. 39	A27.9:2
Weather Bureau:	A 00 0.00
Almanacs and, notes on (Abbe). 1898. p. 21	A29.6:26
certain conditions, advisability of supplying employees with	
(Fulton). 1902. p. 22	A29.3:31
(Fulton). 1902. p. 22 Benefits of, to western Nebraska (Piercy). 1899. p. 144	A29.3:24
Civil-service examinations for (Abbe). 1898. p. 63	A29.6:26
Climate and crop and storm warning services of, value of, to in-	
dustries of Cuba and other islands of West Indies (Hayes).	A 90. 9.91
1902. p. 58. same, to Porto Rico (Noyes). 1902. p. 60.	A29.3:31 A29.3:31
Climate and crop service of, how many climate and crop corre-	N20.0.01
spondents are required to meet fully the needs of? (Allen).	
1902. p. 195	A29.3:31
Commerce on Great Lakes and, note on (Abbe). 1900. p. 17	A29.6:28
Cooperation of, with agricultural experiment stations, report of	4300-5
committee on (Harris). 1893. p. 106.  Expenditures of Signal Service and, statements of	A10.3:16
Tayleuring of Digital Delaice and Statements of	A29.2:Si2

	Classification ne
Weather Bureau—Continued	100 0 01
Higher meteorology in (Bigelow). 1902. p. 19	A29.3:31
How it disseminates forecasts and warnings (Calvert). 1896. p.	A29.2:W37 <sup>1</sup>
XXII.	A29.1:896
Ice business and, note on (Abbe). 1899. p. 63	
International cloud work of (Bigelow). 1899. p. 404	A29.6:27
International courtesy of (Abbe). 1899. p. 160	A29.6:27
Libraries and, notes on (Abbe). 1898. p. 551	A29.6:26
Library of—	
monthly additions to—	A 00 0.05
AprNov., 1897 (Smith)	A29.6:25 A29.6:
utility of (Abbe). 1899. p. 63.	A29.6:27
Night forecasts, is it advisable to distribute by rural free delivery?	1120.0.21
(Blystone). 1902. p. 191.	A29.3:31
Observers—	
stations of instruction for newly appointed, should not certain	
important weather bureau stations be designated? (Smith).	10000
1899. p. 105 suggestions to (Abbe). 1897. p. 55	A29.3:24
Officials of—	A29.6:25
as instructors, notes on—	
1900 (Abbe). p. 336	A29.6:28
1901 (Abbe). pp. 72, 120, 174, 219, 318, 377	A29.6:29
1901 (Kimball). pp. 424, 458, 566	A29.6:29
1902 (Kimball). pp. 38, 130	<b>A29.6:30</b>
as instructors in meteorology, note on (Abbe)—	100 000
1900. p. 446	A29.6:28 A29.6:30
as university lecturers, notes on (Abbe)—	A28.0.00
1899. pp. 256, 363, 420	A29.6:27
1900. p. 114	<b>A29.6:28</b>
duties and qualifications (Pague). 1899. p. 170	A29.3:24
lectures and instruction by, notes on (Abbe). 1901. p. 25	A29.6:29
Pan-American Exposition, exhibit of (Maring). 1901. p. 259	A29.6:29
Paris Exposition, exhibit of, notes on (Abbe). 1900. p. 445	A29.6:28
Promotion for merit in (Abbe). 1898. p. 64.  Public and, relations between (Walz). 1899. p. 12	A29.3:24
same (Salisbury). 1899. p. 14.	A29.3:24
Publications of—	
for school use (Abbe). 1900. p. 558	A29.6:28
notes on, 1891–1901 (Kimball). p. 216.	
Records of, legal value of, note on (Abbe). 1900. p. 115	
Relation of, to Department of Agriculture (Calvert). 1899. p. 54. Relation of meteorological work of agricultural experiment sta-	AZ9.5:24
tions and agricultural colleges to (Harrington). 1892. p. 42.	A10.3:7
Report of (Moore). 1901. p. 595	A29.6:29
Service in, career offered to young men (Nunn). 1902. p. 78	A29.3:31
Signals of—	
report of committee on. 1892. p. 34	A29.3:7
report on. 1898. p. 668suggestions for improvement of—	A1.10:898
(Abbe). 1892. p. 35	A 29. 3:7
(Barus). 1892. p. 44	A29.3:7
(Barus). 1892. p. 44 (Dunwoody). 1892. p. 35	A29.3:7
(Garriott). 1892. p. 48	A29.3:7
(Hazen). 1892. p. 39	
(Marvin). 1892. p. 41	
(Purssell). 1892. p. 47	
(Russell). 1892. p. 42 (Whitehead). 1892. p. 46	A29.3:7
State sections of, notes from reports (Abbe). 1898. pp. 20, 65,	
114	A29.6:26
Universities and colleges and, notes on (Abbe)—	100 5 55
1898. p. 568	A29.6:26
1900. p. 100	A29.6:28

Index	Classification no.
Weather Bureau—Continued	
Voluntary observers—	
examination of monthly meteorological reports of (Bauer).	A 90 2.21
1902. p. 172instructions for	A29.12:V88
report on. 1895. p. 555	A1.10:895
same. 1896. p. 600	A1.10:896
should not thermographs be furnished to, records to be kept at section centers? (Wollaber). 1902. p. 219	A 20 3 31
West India service, monthly reports of (Stockman). 1899. p. 194.	A29.6:27
same (Kimball). 1902. p. 30	A29.6:30
Work of—	A 90 A 92
extension of (Garriott). 1900. p. 242 for farmer (Moore). 1897. p. 59	A1.10:897
importance of static electricity in (Beals). 1896. p. 39	A29.3:18
in connection with rivers of U.S. 1896	A29.3:17
new (Moore). 1898. p. 81 possible advances in (Sage). 1895. p. 463	A1.10:898 A29 6:23
practical side of, note on (Abbe). 1898. p. 551	A29.6:26
practical side of, note on (Abbe). 1898. p. 551present condition of, propositions for its improvement (Beb-	100011
ber). 1894. p. 34.  telegraph and (Robinson). 1902. p. 145.	A29.3:11 <sup>1</sup>   A29.3:31
See also Alaska—Atlantic City—Climate and crop service—Do-	A25.5.51
minica — Haiti — Jamaica — Japan — Klondike — New York	
City — Philippine Islands — State weather services — Weather	
Bureau stations. Weather Bureau instruments:	
Care and use of (Marvin)	A29.11:F
Description of (Marvin)—	
1891. p. 19	A29.1:891 3
1893. p. 17	A29.1:894
1896. p. 8	A29.1:896
Location and elevation of, at Mount Tamalpais, Cal. (Hammon).	
1898. p. 494 Obtaining and transcribing records from, instructions for. 1892.	└ <b>A29.6:25</b> ┌ <b>A29.11:A</b>
Shelter for—	1120.11.11
(Hazen). 1893. p. 29	A29.3:7
(Pague). 1893. p. 27 (Smith). 1893. p. 25	1 A29.3:7
See also Anemometer—Barometer—Brontometer—Magnetic in-	A29.5:1 
struments—Marvin's weighing rain and snow gauge—Nepho-	 
scope — Pyrheliometer — Thermographs — Thermometers —	
Wind barometer table—Wind vanes.  Weather Bureau kite:	1
Observations in 1898, preliminary results of (Abbe). p. 413	A29.6:27
Observations in 1898, preliminary results of (Abbe). p. 413 Report on (Marvin). 1896. p. 418	A29.6:23
Weather Bureau officials:	1
First convention of, Omaha, Nebr., Oct. 13, 14, 1898, notes on (Abbe), 1898, pp. 213, 412	A29.6:26
(Abbe). 1898. pp. 213, 412 same, proceedings of, edited by James Berry. 1899	A29.3:24
Second convention of, Milwaukee, Wis., Aug. 27-29, 1901, notes	A 00. 6.00
on (Abbe). 1901. pp. 25, 317same, proceedings of, edited by James Berry and W. F. R.	A29.6:29
Phillips. 1902	A29.3:31
Weather Bureau signals. See Storm signals — Weather signals.	
Weather Bureau stations:  Is exposure at, satisfactory for all instruments? (Outram). 1902.	1
	A29.3:31
Libraries at, notes on (Abbe). 1901. p. 25	A29.6:29
Personnel of force of (Carroll). 1902. p. 35	A29.3:31
Should compensation be allowed persons, not in employ of Bureau, while learning station duties to enable them to properly	
perform such duties in cases of emergency? (Cuthbertson).	
1899. p. 127 same (Franklin). 1899. p. 127	A29.3:24
same (Franklin). 1899. p. 127	A29.3:24

	Index
	Classification no.
Weather Bureau stations—Continued	
Work of, under existing conditions of, is it practicable to require assistants to pursue a systematic course of meteorological study?	
1902. p. 82.	A29.3:31
See also Tamalpais, Mount — Turks Island.	1.00 0 777077
Weather charts, explanation of. 1892.	A29.2:W372
Weather codes	A29.2:W37
Weather crop bulletin of southern California, history of (Franklin).	A00 9.10
1896. p. 46. Weather forecast cards by rural delivery, note on (Abbe). 1900.	A29.3:18
	A29.6:28
p. 162	XXZU.U.ZO
Object and collateral functions (Mitchell). 1899. p. 140	A29.3:24
River and cotton belt, establishment and inspection of (Marbury).	
1899. p. 150.	A29.3:24
Weather forecaster and newspaper; read before convention of Weather	
Bureau officials, 1901 (Watts)	A29.2:F76
Same. p. 43	A29.3:31
Weather forecaster and public; read before convention of Weather	
Bureau officials, 1901 (Watts) p. 142	A29.3:31
Weather forecasts:	1 41 10.000
Amplification of (Henry). 1900. p. 107	A1.10:900
of reaching those interested (Conger). 1899. p. 20	A29.3:24
same (Cox). 1899. p. 19	A29.3:24
Commercial importance of, notes on (Abbe). 1900. p. 550	A29.6:28
Distribution of—	1120.0.20
	A29.3:24
by mail (Lyons). 1899. p. 161	A29.3:31
should wording of forecasts be confined to vocabulary of pres-	
ent logotype outfit? is it advisable to extend vocabu-	
lary of present logotype outfit? (Chaffee). 1899. p. 48.	A29.3:24
same (Chappel). 1899. p. 49	A29.3:24
For the farmer (Reed). 1900. p. 287.	A29.6:28
General and local, relation between (Walz). 1902. p. 117	A29.3:31
Historical, practical, and theoretical facts. 1899	A29.5:20
Hongkong (Doberck). 1899. p. 98	A29.0:21
p. 153	A 29 3:31
Long-range—	1120.0.01
can they be made with any degree of accuracy or profit?	
(Crane), 1899, p. 157	1.429.3:24
can they be made with sufficient precision to be of general	
utility?—	
(Connor). 1899. p. 44.	A29.3:24
(Hazen). 1899. p. 43	A29.3:24
(Pague). 1899. p. 46.	A29.3:24
Canada (Gun). 1899. p. 149.	A 29.0:27
Oregon (Abbé). 1895. p. 423	A 20 R 20
• possibilities of (Abbe). 1894. p. 330	A 29 6 22
present state of, notes on (Abbe). 1899. p. 156	A 29.6:27
Methods employed in distribution of (Berry). 1901. p. 14	A29.6:29
Mexico, notes on (Abbe). 1900. p. 540	A29.6:28
Missouri (Frankenfield). 1895. p. 292	A29.6:23
Monthly, notes on—	
Oct., 1897-Apr., 1898 (Dunwoody)	A29.6:
May, 1898 (Morrill). p. 195  June-Aug., 1898 (Bigelow)	A29.6:26
June-Aug., 1898 (Ligelow)	A29.6:26
Sept., 1898, to Oct., 1902 (Garriott)	A29.6:
Public and (Boyer). 1902. p. 151. Should temperature be verified by maximum and minimum	A29.3:31
readings? (Lyons). 1902. p. 167	A29.3:31
Stamping, on mail matter, report of committee appointed to in-	ALC.U.UL
vestigate subject of (Chaffee). 1896. n. 51	A29.3:18
vestigate subject of (Chaffee). 1896. p. 51 Storm tracks, storms, and (Bigelow). 1897	A29.3:20
.,	<del>-</del>

	Classification no.
Weather forecasts—Continued	Classification hos
Storm warnings and, how Weather Bureau disseminates (Calvert).	
1896. p. xxii	A29.1:896
Street-car notices (Conger). 1902. p. 206.	A29.3:31
Value of (Dunwoody). 1894. p. 121	A1.10:894
same (Cline). 1895. p. 293 Value of dew point in, under certain conditions (Wood). 1902.	A29.6:23
p. 152.	A29.3:31
Verification of (Marbury). 1902. p. 156	A29.3:31
Weather types and, on north Pacific slope (Pague and Bland-	
ford). 1897.	A29.2:P11
What classes are most benefited by? are they just what are needed? are they properly disseminated and utilized?	
(Sage). 1899. p. 40	A29.3:24
(Sage). 1899. p. 40 same (Bate). 1899. p. 41	A29.3:24
Would not postal card prove satisfactory substitute for map?	
(Calvert). 1899. p. 100. same (Townsend). 1899. p. 102.	A29.3:24
See also Semaquir.	A29.3:24
Weather guide, Australian, notes on (Abbe). 1898. p. 365	A29.6:26
Weather map:	1120.0.20
Daily—	
development of (Calvert). 1899. p. 144	A29.3:24
for Mexico (Abbe). 1899. p. 107. publication of (Scott). 1894. p. 6.	A29.6:27
wall map, $52 \times 56$ in. Dec. 13-16, 1893. 1894.	A29.2:W37†
Explanation of (Moore)	A29.2:W37 6
History of (Harrington). 1895. p. 327	A29.3:112
How to make synopsis instructive to public (Chaffee). 1902.	100 0 01
p. 137.	A29.3:31
Is it appreciated and understood by the masses? would not postal card weather forecast prove satisfactory substitute	
for map? (Calvert). 1899. p. 100.	A29.3:24
same (Townsend). 1899. p. 102	A29.3:24
Pan-American Exposition	A29.2:P19
Proposed classification and index of, as an aid in weather fore-	A29.6:29
casting (Brown). 1901. p. 547	
Table of Utility of. 1899. p. 107	A29.6:27
Weather observers:	
Civil-service examinations for, in United States Weather Bureau	100 0 00
(Kimball). 1898. p. 548.	A29.6:26 A29.3:11 <sup>2</sup>
Early individual, in United States (Henry). 1895. p. 291	A29.12:Ob7
Voluntary—	1120122.001
how best to secure and retain services of (Greenewald). 1896.	
p. 42	A29.3:18
should not a book be provided for keeping record of issue of	A29.3:24
instruments and flags to? (Allen). 1899. p. 125same (Bronson). 1899. p. 126	
What a weather observer should know (Taylor). 1898. p. 543	A29.6:26
Weather of the month:	
Jan., 1898–June, 1900 (Henry)	
July, 1900 (Day)	A29.6:28
July, 1901 (Day)	A29.6:29
Aug., 1901-Apr., 1902 (Henry)	A29.6:
Aug., 1900-June, 1901 (Henry) July, 1901 (Day) Aug., 1901-Apr., 1902 (Henry) May-Oct., 1902 (Stockman)	<b>A29</b> .6:30
See also, Weather, monthly notes and statements.	
Weather predictions:  Rest method of testing (Künnen) 1894 n 29	A 29.3.111
Experiments in (Eddy), 1899, n. 96	A29.6:27
History of (Abbe). 1899. p. 64	A29.6:27
Best method of testing (Köppen). 1894. p. 29  Experiments in (Eddy). 1899. p. 96  History of (Abbe). 1899. p. 64  Smithsonian, notes on (Abbe). 1898. p. 263	A29.6:26
Utilization of cloud observations in local and general (McAdie).	A 90. 9.117
Utilization of cloud observations in local and general (McAdie). 1894. p. 21 Weather prophet, every man his own (Hopkins). 1899. p. 293	A29.8:27
on more property of the same will describe the source of	VIV <b>III</b>

•	Classification no.
Weather proverbs, unreliable popular, notes on (Abbe). 1896. p. 374.	
Weather-recording instruments, instructions for transcribing records	112010.24
from. 1892	A29.11:A
from. 1892 Weather review, monthly	A29.6
Weather sign, local, note on (Abbe). 1900. p. 249	A29.6:28
Weather signals:	
International symbols recommended for use by meteorological	
congress, Munich, 1892 (Harrington). Jan. 1, 1894.	A29.2:In8
Railway. 1883. No. 64. p. 18 Searchlight for (Calvert). 1898. p. 58	
See also Storm signals.	A29.6:26
Weather symbols on rural free-delivery wagons (Pindell). 1902.	
p. 208	A29.3:31
Weather telegraphy:	
Early history of (Abbe). 1895. p. 215.	A29.6:23
History of, note on (Abbe). 1899. p. 17	A29.6:27
Weather types:	
Classified, report on (Garriott). 1901. p. 548.	A29.6:29
same (Kimball). 1901. p. 562. Corresponding, facilities for systematic study of (Brandenburg).	A29.6:29
1902. p. 136	A29.3:31
Facilities for systematic study of corresponding (Brandenburg).	A25.3.31
1901. p. 546	A29.6:29
Havre, Mont. (Ling). 4898. p. 410.	
North Pacific slope (Pague). 1895. p. 417.	
Weaver, Willis. Coffee, culture and habits of. p. 31	
Web-worm. See Corn-root web-worm — Juniper web-worm — Pars-	
nip web-worm — Privet web-worm — Sugar-beet web-worm.	
Webb, Wesley:	A 10 0 100
Delaware, farmers' institute work accomplished in. 1902. p. 17. Sheep husbandry in Delaware. 1883. p. 172	
Webber, B. C. Gales, January, from Great Lakes to maritime	A1.7:2
provinces. 1902. p. 11.	A29.6:30
Webber, Herbert John:	1120.0.00
Fertilization of soil as affecting orange in health and disease.	
1894. p. 193	A1.10:894
Freezes, two, of 1894-95 in Florida, and what they teach. p. 159	A1.10:895
Fungous parasite on Aleyrodes citri R. & H., preliminary notice	100 F F
of. 1891. p. 363	A28.5:7
1,64	A1.10:896
Pineapple industry in United States. 1895. p. 269	A1.10:895
Plant varieties, influence of environment in origination of. 1896.	111.10.000
^^	A1.10:896
Plants, improvement of, by selection. 1898. p. 355	A1.10:898
Sooty mold of orange—	
and its treatment. 1897	-
treatment of. 1895	A28.4:15
Xenia, or immediate effect of pollen in maize. 1900	A0.5:15 A98 3:99
Zamia, spermatogenesis and fecundation of. 1901	A19.3:2
See also, as joint author, Swingle, Walter Tennyson.	
Webber, Herbert John, and Bessey, Ernst A. Plant breeding, pro-	
gress of, in United States. 1899. p. 465	A1.10:899
Webber, Herbert John, and Orton, W. A. Cowpeas resistant to	140045
root knot. 1902. p. 22.	A19.3:17
Weber, Henry Adam. Baking powders as found in market, composition of. 1889. p. 576	A 7 9.195
See also, as collaborator, Wiley, Harvey Washington.	A7.3:13 <sup>5</sup>
Weber, Henry Adam, and McPherson, William. Glucose, commer-	•
cial, cane sugar in presence of, report on determination of.	
1894. p. 126	A7.3:43
Weber County, Utah, soil survey in (Gardner and Jensen). p. 207	A26.5:900 <sup>1</sup>
Webster, C. E. Silkworm, Japanese oak-feeding, notes on cultiva-	405.
tion of. 1889. p. 273	A9.7:1

Index	Classification no.
Webster, Francis M.:	Classification mo.
Arkansas and Texas, injurious and other insects of, observations	
on. 1891. p. 451 Army worm notes. 1890. p. 112	A9.7:3
Army worm notes. 1890. p. 112	A9.7:3
Arsenites, spraying with, vs. bees—	10.7.5
1892. v. 5, p. 121 1894. v. 7, p. 132	A9.7:7
Australia and Tasmania, injurious and beneficial insects of, notes	
on some. 1889. p. 361	A9.7:1
	A9.7:1
Buffalo gnats, or simulium—	A 1 1 007 0
infesting country adjacent to Mississippi River. p. 456 report on. 1887. p. 29	A9.3:14
Cereal crops, insects affecting, report on some of. 1890. p. 63	A9.3:23
Chinch bug—	
interesting outbreak of, in northern Ohio. 1899. p. 55	A9.6:20
in Ohio, outbreak of, three years' study of. 1896. p. 18 its probable origin and diffusion, its habits and development,	A9.6:6
natural checks and remedial and preventive measures, with	
mention of habits of allied European species. 1898	A9.6:15
Cimbex, American, adults of, injuring willow and cottonwood in	
Nebraska. 1890. p. 228.	A9.7:2
Clover hay-worm, Asopia costalis, some studies of. 1891. p. 121. Coccinellidæ in conservatory, experiment with. 1890 p. 363	A9.7:4
Corn, insects affecting, notes upon. 1890. p. 159	
Corn bill-bugs, life history of one of. 1889. p. 132	4
Corn insects, observations on, in 1887. p. 147	A1.1:887
Crane-fly, larvæ of, destroying young wheat in Indiana. 1890.	A 0. 7. 9
p. 12	A9.7:3
cially of genus Tyloderma, notes on. 1889. p. 109	A9.7:2
Eburia quadrimaculata, longevity of early stages of, notes upon.	
1889. p. 339	A9.7:1
Entomology, applied, present and future of, in America. 1897.	A9.6:9
p. 5	A9.7:3
Grain toxoptera, notes on. 1892. p. 245	A9.7:4
Grains—	
American cereal, insect foes of, with measures for their pre-	107.0
vention or destruction. 1893. p. 146insects affecting, observations upon. 1890. p. 42	A9.7:6 A9.3:22
Grains and grasses, small, insects affecting. p. 573	A1.1:886
Grasses, insects, which affect upper portion of stems of, notes on	
some. 1889. p. 372	A9.7;1
Hemipterous insects, record of some experiments relating to effect	
of puncture of some, upon shrubs, fruits, and grains, 1886.  1887. p. 54	A9.3:13
Insectary and office methods in use in entomological department	110.0.10
of Ohio Agricultural Experiment Station, report on. 1899.	
p. 46	A9.6:20
Insects— destructive, importation and repression of. 1895. p. 79	A9.6:2
injurious, early published references to some of our. 1892.	Ab.U.2
pp. 262, 323	A9.7:4
pp. 262, 323	A9.7:5
Limax campestris, 100d of, further notes on. 1892. p. 128	A9.7:0
Necrophagous diptera, notes on species of. 1890. p. 356 Ohio—	A.U. 1.Z
insects in, notes on, 1891, p. 63	A9.3:26
insects of year in, as reported to Association of Economic	
Entomologists—	40 = 0
1893. p. 186	A9.7:6
1894. p. 202 1895. p. 84	
1898. p. 66	
1900. p. 84	l

Classification fo. Webster, Francis M.—Continued Plum curculio, experiments in rearing, from plums and other fruits--1888. p. 78 A1.1:888 1890. p. 305 ...... ' A9.7:2 Strawberry-leaf flea-beetle in Indiana. 1891. p. 317...... A9.7:3 Wheat, fall, insects affecting. p. 383...... A1.1:884 same. p. 311.

Webster, Francis M., and Burgess, Albert F. Coccide of Ohio, Webster, Francis M., and Mally, C. W.: Ohio, insects of year in, as reported to Association of Economic Entomologists— 1898. p. 98 A9.6:17 1899. p. 68
Webster, Francis M., and Newell, Wilman. Ohio, insects of year in, A9.6:20as reported to Association of Economic Entomologists. 1901. p. 84. Webster, W. Prentiss. Crops in Germany. 1870. p. 283..... A9.6:21 A27.9:8Wedderburn, Alexander John: Food adulteration popular treatise on extent and character of. 1890..... A7.3:25special report on extent and character of, including State and other laws relating to foods and beverages. 1892..... A7.3:32 Food and drug adulteration, extent and character of. 1894...... A7.3:41 Pharmacy and drug laws of States and Territories, compilation of. 1894 A7.3:42 Weed, Clarence Moores: Aphididæ, certain little known, fifth contribution to a knowledge Potato rot, injuries of, experiment in preventing. 1889. p. 158. A28.5:5 Weed, Clarence Moores, and Fiske, William F.: Pimpla conquisitor, relations of, to Clisiocampa americana. 1900. p. 33 Spruce bark-beetles, notes on. 1898. p. 67 A9.6:26 A9.6:17 Weed, Howard Evarts: Carbon bisulphide for crayfish. 1895. p. 98. A9.6:2 Insects injurious to cotton, remedies for. 1893. p. 167. A9.7:6 Knapsack kerosene attachment, some experiments with. 1895. Weeds: Abstracts of reports of agricultural experiment stations on, 1889-A10.6: American agriculture (Darlington). p. 509.

Birds as destroyers of (Judd). 1898. p. 221 A1.1:865 A1.10:898 Destruction of, by means of chemicals (Evans). 1901. p. 19.... A1.9:124 Noxious, report on (Coville)— 

And Ca	Classification	no.
Weeds—Continued		
Two, new to United States (Rose). p. 355	A1.1:891	
same. p. 355	A6.1:891	
Two hundred, how to know them and how to kill them. 1895.		
p. 592	A1.10:895	
See also Abutilon avicennæ (Indian mallow) — Chess — Cockle-		
bur — Florida beggar weed — Garlic — Grasses and weeds —		
Mustard — Noxious weeds — Russian thistle — Seaweed.		
Weeds and how to kill them (Dewey). 1895	A1.9:28	
Weevils. See Apple tree—Bean—Fly—Mexican cotton-boll—Palm		
and palmetto — Pea — Potato-bud — Potato stalk — Straw-		
berry — Tobacco stalk.		
Weights and measures: Decimal system of (Johnson). 1864. No. 6. p. 20	A 97 0.9	
Explanation of systems of various States. p. 219	A11.9.2	
Notes on—	A1.1.0/1	
1864. p. 19	A 27 9.2	
1865. No. 10. p. 4	A27.9:3	
1866. p. 27	A27.9:4	
Porto Rico, notes on (Abbe). 1898. p. 567	A29.6:26	
See also Metric system.		
Weight of an animal, what is the live? (Patterson). 1893. p. 150	A10.3:16	
Weiske, H. Milch cows, food of, do volatile acids in, occur in milk?		
1890. p. 141	A7.3:24	
Welch, A. S. Organization and management of seven agricultural		
schools in Germany, Belgium, and England. 1885		
Well waters and drainage, lecture on (Warington). 1892. p. 95	A10.3:8	
Wellman, Walter. Horse trade, American, of Great Britain. 1897.	4 4 0 77 70	
p. 45	A1.2:H78	
Wellman's first polar expedition, 1894, notes on (Abbe). p. 312	A29.6:26	
Wellman's second polar expedition:		
Made in neighborhood of Franz Joseph Land, 1898-99, auroral	A 90 R 90	
observations on (Baldwin). p. 107	A 20 R . 28	
Notes on (Abbe). 1898. p. 414	A 29 8 28	
same, p. 366		
Wells:	1120.0.21	
Freezing, notes on (Kimball). 1901. p. 509	A29.6:29	
Frozen, as meteorological phenomena (Kimball). 1901. p. 366.	A29.6:29	
Storms and, note on (Abbe). 1900. p. 293	A29.6:28	
Water in, temperature of, notes on (Kimball). 1901. p. 510		
Wentworth, C. C. Bridges, country road. 1895. p. 48	A22.3:11	
Werner-Smith method of determination of fat in milk (Stokes).		
1890. p. 158	A7.3.24	
West, Charles E. Atmospheric electricity, early experiments in.	A 900 -0-04	
1896. p. 333	A29.6:24	
West, Max: Employment agencies for use of farmers, list of. 1900	A 97 A · 12	
Public domain of United States. 1898. p. 325	A1 10.808	
West, Robert A. Aquaria, fresh and salt water. p. 446	A1.1:884	
West:	111.1.001	
Agricultural condition of. 1871. p. 329	A27.9:9	
Cattle interests of (Fullinwider). p. 271	A4.1:884	
Central, animal husbandry in (Morrow). p. 62	A1.8:22	
Cooperative grass stations in (McLaren). p. 344	A1.1:891	
same, p. 344 Far, native fruits of (Thompson). p. 207.	A6.1:891	
Far, native fruits of (Thompson). p. 207	A1.1:865	
Grape growing at (Thompson). p. 115.  Hogs and pork packing in (Emery). p. 198.  Middle, forest extension of (Hall). 1900. p. 145.	A1.1:866	
Hogs and pork packing in (Emery). p. 198.	A1.1:863	
Middle, forest extension of (Hall). 1900. p. 145	A1.10:900	
Semiarid, forage plants for (Georgeson). 1893. p. 145	A1U.3:10	
Sheep husbandry in (Boardman). p. 286	A1.1:00Z	
See also Western States and Territories. West Berkeley, Cal., local squall at, Dec. 11, 1894 (Abbe). p. 509	A 20 A 29	
West Indian rufous scale, report of (Cockerell). 1892. p. 380	AQ 7.4	
Wast Indias:		
Barometry of (Bigelow). 1902	A29.1:901 *	

Classification no.

	Classification n
West Indies—Continued	400 0 11 8
Climate of (Hall). 1896. p. 589	A29.3:11 *
p. 59	A8.1:4
Cyclones of, wind direction at different altitudes around, some	
observations of (Boyer). 1892. p. 50	A29.6:20
French, cugar making in. 1873. p. 25  Hurricane service (Moore). 1899. p. 56	A27.9:11 A29.3:24
Hurricanes of—	1120.0.24
	A29.5:H
report on (Garriott). 1900. September, 1896, notes concerning (Henry). p. 368	A29.6:24
September 1–12, 1900. p. 371.  Industries of Cuba and other islands of, value of climate and crop	A29.6:28
and storm-warning services of Weather Bureau to (Hayes).	
1902. p. 58	A29.3:31
Monthly weather charts for, notes on (Abbe), 1899, p. 111	A29.6:27
Relation of forests and rainfall (Hubbard). 1873. p. 117	A27.9:11
Storms of, relative intensity of (Hazen). 1894. p. 333	A29.6:21 A29.6:26
Weather Bureau service in—	A28.0.20
monthly reports of (Stockman). 1899. p. 194	A29.6:27
notes on (Garriott), 1898. p. 303.	A29.6:26
same (Kimball). 1902. p. 30.	
Yams in (Fairchild). 1899	A6.4:21
West Newbury, Mass., farmers' club. 1870. p. 228	A27.9:8
West Virginia:	
Coal-oil in (Shattuck). p. 525	A 1.1:863
Entomological discoveries and observations of year in (Hopkins).	AO 7.7
1894. p. 145 Farm resources and products of. 1868. p. 132	A9.7:7 A27.9.6
Farmers' institute work accomplished in (Thompson). 1902.	11211010
p. 30	A10.3:120
Forest condition and lumber and wood trade of (Hough). 1884.	A 10 5.4
p. 348	A13.5:4 A9.6:17
Observations in, on farm, garden, and fruit insects, some notes on	110.0.11
(Hopkins). 1896. p. 71	A9.6:6
Resources of, etc., brief history of (Dodge). p. 42	A1.1:863
Road improvement in, extract from governor's message (Atkinson). p. 14	A22.4:33
West Virginia braconidæ, some bred (Hopkins). 1892. p. 256	A9.7:4
Western cricket, outbreaks of, in Idaho (Milliken). 1893. p. 17	A9.7:6
See also Cricket.	4 00 E E
Western fungi, new (Ellis and Galloway). 1889. p. 65	A28.5:5 A13.3:33
Western plains:	A10.0.00
Sheep of, tape-worm disease of (Curtice). p. 167	
Tree culture on (Thomson). 1891. p. 45.	
Tree planting in (Keffer). 1895. p. 341	A1.10:895
Condition of forests, timber culture, etc., in (Baker). 1884. p. 105.	A13.5:4
Farmer of, best breeds of cattle for general use of (Baker). 1883.	11101011
p. 95	A1.7:2
Forest condition and lumber and wood trade of, reports on (Fur-	A 10 E.4
nas). 1884. pp. 246, 255	A13.5:4 A1.1:878
Forestry of. p. 515	A27.9:2
See also West—and names of States and Territories.	
Western wheat culture, ruinous. 1867. p. 321.	
Westfield area, New York, soil survey (Burke and Marean). p. 75	
Westward movement of daily barometric wave (Fassig). 1902. p. 62. Wetherell, Leander. Ice trade, history of. p. 439	A1.1:863
Wetherill, Charles M., chemical analysis of grapes. 1862.	A1.8:3
See also, for report as Chemist, Chemistry Bureau, Agriculture De-	
partment, 1862	A7.1:

Wheat:	
Algerian durum, classified list, with descriptions (Scofield). 1902.  American—	A19.3:7
basis for improvement of (Carleton). 1900	A28.3:24
[let report.] 1883	A7.3:1
same, errata. 1884. p. 98	A7.3:4
2d report. 1884	
recent use of, in Austria-Hungary	112 4.10
Australian statistics, 1883–4. No. 11. p. 38	
1868. p. 459	A27.9:6
1869. pp. 147, 240	
1870–71. p. 324	A27.9:9
1872–86. p. 641	A27.9:25
Carbohydrates of (Stone). 1896.	A10.3:34
Chicago and Milwaukee, 1862-66. p. 431	A27.9:4
Consumption of, per capita in United States. 1895. p. 74	
Course of production and exportation in United States, Canada,	112770.00
	A12.4:10
Argentina, Uruguay, Russia, and British India, 1880–96	
Crop, condition, monthly notes on	
Crop statistics, annual.	A27.1:
Cultivation and hybridizing of (Watts). 1872. p. 432	A27.9:10
Dakota. 1887. p. 631	A27.9:25
Deterioration of. 1871. p. 465	A27.9:9
Distribution and consumption of—	
1883. No. 57.	A 97 Q.91
1884	A27.9:22
• • • • • • • • • • • • • • • • • • • •	
1885. p. 22	
1893. No. 102 A	
1895. p. 59	
1895, for 25 years. p. 88	A27.9:32
Drill and broadcast sowing of. 1864. No. 5. p. 6	A27.9:2
Early plowing for (May). 1900. p. 7	A1.9:122
English culture of. 1870. p. 286.	A 27.9.8
English imports of, 1854–63. No. 2. p. 25.	A 27 Q 2
English prices of. 1895. p. 193.	A 97 Q.32
Turnan magnata Am 1999 (Maffet \ No 50 m 91	A 07 0.01
European, prospects. Apr., 1883. (Moffat.) No. 58. p. 31	
Experiments of J. B. Lawes, 1863-73. p. 596.	A27.9:11
Exportation of —	
comparative statistics of. 1891. p. 80	A27.9:29
to England, 1867–68. p. 325	A27.9:6
Exports of—	
1830–76. p. 30	A27.9:15
1880–90. p. 567	A27.9:28
Fall, insects affecting (Webster). p. 383	
same (Webster). p. 311	A1 1.885
Fertilization of, and other grasses (Vasey). 1873. p. 247	111.1.000 197 0.11
Food for growing and fattoning animals (Salmon) in d	
Food for growing and fattening animals (Salmon). n. d	A4.4:2
Foreign demand for. 1873. p. 594	A27.9:11
Freight rates on, from New York to Liverpool. 1895. p. 553	
same, 1892–96. p. 597	A1.10:896
French crops, 1815–74. p. 116	A27.9:14
Great Britain, imports of, 1873–74. p. 45	A27.9:13
Great Britain and Ireland, consumption and production of. 1865.	
No. 7. p. 27	A27.9:3
Grawing	
post of in England 1985 No 22 n 24	A 97 Q.99
Now Hampshim (Rauthott) w OR	11 1.000
New Hampshire (Darmett). p. 90	A1.1:004
Northwest. 1808. p. 323	A27.9:6
Pacine coast region, general agricultural conditions and	
(Holmes). 1901	A27.8:20
principal insect enemies of (Marlatt). 1901	A1.9:132
cost of, in England. 1885. No. 23. p. 34  New Hampshire (Bartlett). p. 96  Northwest. 1868. p. 323  Pacific coast region, general agricultural conditions and (Holmes). 1901  principal insect enemies of (Marlatt). 1901  successful, in semiarid districts (Carleton). 1900. p. 529  Horse beging experiment in 1868. p. 90	A1.10:900
Horse hoeing, experiment in. 1868. p. 90	A27.9:6
Hungarian exports, 1855–68. p. 148	A27.9:7
Horse hoeing, experiment in. 1868. p. 90  Hungarian exports, 1855–68. p. 148  Improvements in culture of (Carleton). 1896. p. 489	A1 10-204
Amprovements in culture of Collewith. 1000. p. 400	211, 10,000

	Classification no.
Vheat—Continued	A 00 4.10
Industry in, new, for semiarid West (Carleton). 1901	A20.4:10
Inspection of. 1889. p. 64	A 27 9 27
International supply, 1858–76. p. 27.	A27.9:15
Irish production, decrease of, 1847-62. No. 6. p. 21	A27.9:1
Macaroni (Carleton). 1901	A19.3:3
Minnesota crop of—	
1865. p. 12	A27.9:4
1869. p. 144	A27.9:7
1887. p. 631	
Nebraska. 1867. p. 366	
Origin and treatment (Blount). p. 559	
Pennsylvania Agricultural College experiments. 1873. p. 442 Ports for, on Pacific coast (Holmes). 1901. p. 567	
Premiums for growers of—	111.10.001
1868. p. 364	A27.9:6
1870. p. 84	
Prices of—	
1890. p. 524	A27.9:28
1865–1895. p. 82	A27.9:33
Production and exportation in United States, Canada, Argentina,	
Uruguay, Russia, and British India, course of, 1880-96	
Production of, in census years since 1869. 1894. p. 189	' A27.9:32
Products and prices of—	4.07.0.05
1887. p. 361	107000
1888. p. 525	1
Receipts of, 1863-67. p. 371	
Report on plant (Bollman). p. 65.	A1.1:862
Russian, British imports of, 1852–67. p. 39.	
Rusted, request for specimens of (Dabney). 1894	A28.4:14
Rusts affecting, experiments in treatment of (Galloway). 1891.	
p. 195	A28.5:7
Scarcity of. 1867. p. 208	A27.9:5
Scotland, experiments. 1866. p. 386	
Seed, for the Northwest, correspondence on. 1868. p. 285	
Sheaf, feeding to hogs (French). p. 495	
Sheaf and chopped, for pigs (French). p. 494	
South Carolina. 1870. p. 355	A27 9.8
Spring, culture in Northwest (Andrews)	A1.6:40
Straw and stubble of, specimens requested (Rusk). n.d	A28.4:12
Surplus of corn and foreign distribution of. 1890. p. 212	A27.9:28
Tennessee culture of. 1875. p. 399	A27.9:13
Trade of world. 1867. p. 340	A27.9:5
United States, from eastern Asia. 1897	A12.4:17
Varieties of—	41050
extension of tests applied to. 1890. p. 131	
grown in United States. 1888. p. 229	
Victoria, Australia, crop. 1894. p. 26	A 27.8:00 A 97 Q:7
Weight of, per bushel. 1889. p. 63	A27.0.7
Western culture, ruinous. 1867. p. 321	A27.9:5
What science can teach about (Richardson). p. 67	A1.7:2
What science can teach about (Richardson). p. 67	A27.9:8
Winter, condition of—	
1868. p. 185	<b>A27.9:6</b>
1871. p. 468	A27.9:9
1872. p. 10	
1873. p. 135	A27.9:10
1876. pp. 25, 77, 160, 222, 453	A27.9:14
1883	AZ7.8:21
Winter and spring, notes on. 1809. No. 2. p. 10	A41.8.5
1886. p. 94	A27.9-25
1886. p. 94 1888. p. 75	A27.9:27
	,

	Classification no.
Wheat—Continued	
World's crop—Continued	
1889. p. 106	A27.9:28 A27.9:30
1893. p. 85	A27.9:31
1891–94. p. 80	A27.9:33
1894. p. 99 1896	A27.9:32 A27.4:2
Young, in Indiana, larvæ of crane-fly destroying (Webster).	1227112
1890. p. 12  See also Cereals, American — Crops, principal — Fultz wheat —	A9.7:3
India — Sheaf wheat.	
Wheat bran for fattening pigs (Duggar). p. 496.	A4.1:898
Wheat grain and wheat straw, grown at Rothamsted in different	
seasons and by different manures, composition of ash of (Lawes and Gilbert). p. 85	A7.8:4
and Gilbert). p. 85 Wheat pest, new, report of (Coquillett). 1895. p. 406	<b>A9.</b> 7:7
Wheat region: Minnegate and North and South Dakote Bussian thirtle and	
Minnesota and North and South Dakota, Russian thistle and other troublesome weeds of. 1893.	A1.9:10
Weather Bureau, service, instructions governing (Berry). 1897	
Wheat saw-flies, notes on (Riley and Marlatt). 1891. p. 168	A9.7:4
Wheat shorts as food for pigs (Plumb and Anderson). p. 463	A4.1:899
p. 207	A10.3:104
"Wheel bugs" destroying hive bees, note on. 1886. p. 44	A9.3:12
Wheeler, Homer Jay: Liming of soils	A1.9:77
Phosphoric acid determination, increased accuracy in. 1901.	A1.0.77
p. 44	A7.3:62
Plant-soil tests— danger of drawing erroneous conclusions from. 1898. p. 60.	A7.3:56
possibility of drawing erroneous conclusions from. 1899.	A7.5:50
p. 113.	A10.3:65
Soils, acidity on upland or naturally well-drained, report on necessity of tests for. 1895. p. 45	A7.3:47
Wheeler, Homer Jay, Armsby, Henry Prentiss, Woods, Charles	A1.5.71
Dayton, and Wiley, Harvey Washington. Fertilizer inspec-	
tion laws, needed reforms in. 1897. Wheeler, Homer Jay, and Hartwell, Burt L. Phosphoric acid, de-	A7.4:3
termination of, use of ammonium nitrate in. 1892. p. 53	A7.3:35
Wheeler, William M. Xiphidium ensiferum, oviposition and em-	
bryonic development of, notes on. 1890. p. 222	A9.7:2
at Albany, N. Y., February 11, 1897. p. 15	A22.4:28
Whipplei. See Yucca whipplei.	
Whirfwinds, local, in New Brunswick, notes on (Kain). 1900. p. 488. Whitaker, George M. Milk supply of Boston and other New Eng-	A29.6:28
land cities. 1898	A4.3:20
White, C. A., and Aughey, Samuel:	•
Artesian well near Fort Lyon, Colo. p. 26	A1.1:881-2
sion. 1882	A1.8:19
White, H. C.:	
Address of, as president of Association of American Agricultural Colleges and Experiment Stations, at twelfth annual con-	
vention, 1898. p. 34.	A10.3:65
vention, 1898. p. 34. same, committee report on. p. 74.	A10.3:65
Agricultural colleges, what should be taught at. 1896. p. 75	A10.3:41
Cotton, manuring of. 1896. p. 169. same, Jan., 1897 White, J. W., address of, before national road conference. July,	A1.9:48
White, J. W., address of, before national road conference. July,	100000
1894. p. 42	A22.3:10
Circular on (Marlatt) 1902	A9.5:50
Species injurious to wall paper, books, timbers, etc. (Marlatt.)	
1896. p. 70	A9.6:4

Index Classification no. White fir, disease of (Hartig). 1889. p. 164.....  $\mathbf{A28.5:5}$ White fly investigation, review of, with incidental problems (Gossard). 1902. p. 68..... A9.6:31 White grubs: White kafir corn. See Kafir corn. White-marked tussock moth. See Tussock moth. White pine: Insect enemies of (Chittenden). 1899. p. 55 ...... A13.3:22 Report on (Spalding), revised and enlarged by B. E. Fernow. White scale. See Icerya. Whitehead, Mortimer. Signals, Weather Bureau. 1892. p. 46.... A29.3:7 Whitewater, Wis., ground-water at, fluctuations in level and rate of movement of (King). 1892..... A29.3:5 Whitney, Milton: Announcement of functions of Soils Division, Agriculture Depart-A26.4:1 Climatology vs. meteorology. 1898. p. 301. Climatology and soils in their relation to cotton cultivation. 1896. A29.6:26 Field operations of Soils Division, Agriculture Department, in A10.3:33 1899. p. 13 ..... A1.8:64 Rainfall and charts of rainfall. 1902. p. 233 A29.6:30 Rice soils of South Carolina. 1893. p. 77. A27.8:6Salt content of alkali waters and soils, instructions for determining in field. 1900..... A26.4:6 Soil collection of Division of Soils, Agriculture Department, catalogue of first 4,000 samples in. 1899..... A26.3:16Soil features that should be recognized in all plat work. 1891. p. 91. Soil investigations in United States. 1899. p. 335...... A10.3:7 A1.10:899 reasons for cultivating. 1895. p. 123. A1.10:895 samples of, for moisture determination, instructions for taking. A26.4:2 Soil survey, purpose of. 1901. p. 117. A1.10:901 Soils— Exhaustion and abandonment of, testimony before Industrial Commission. 1901
in their relation to crop production. 1894. p. 129
of Florida, preliminary report on. 1898.
A1.8:70
A1.10:894
A26.3:13 physical analysis of. 1895. p. 62 A7.3:47 problems, some interesting. 1897. p. 429 A1.10:897 some physical properties of, in their relation to moisture and crop distribution. 1892..... A29.3:4 Soils Division, Agriculture Department field operations of— 1899 ..... A1.8:64 1900 A26.5:900 1901 ..... A26.5:901 work of, for farmer. 1897. p. 122..... A1.10:897 Sumatra tobacco, growing, under shade in Connecticut Valley. A26.3:20 Tobacco, methods of curing

Tobacco investigations of Agriculture Department. 1901. p. 108. A1.9:60 A10.3:99 A1.9:83principal tobacco districts. 1898 ..... A26.3:11See also Schulte, J. I.; as joint author, Marvin, Charles Frederick. See also, for reports as Chief of Division of Agricultural Soils, 1894

A26.1:

to 1896; Soils Division, 1897 to 1900; Soils Bureau, 1901 and

	Classification no.
Whitney, Milton, and Briggs, Lyman James. Electrical method of determining temperature of soils. 1897	A26.3:7
Whitney, Milton, and Floyd, Marcus L. Tobacco industry, growth oi. 1899. p. 429	A1.10:899
Whitney, Milton, and Hosmer, Ralph Sheldon. Soil moisture; record of amount of water contained in soils during crop season	
of 1896. 1897. Whitney, Milton, and Means, Thomas Herbert:	1
Alkali lands. 1899  Alkali soils of Yellowstone Valley, from preliminary investiga-	A1.9:88
tion of soils near Billings, Mont. 1898. Cigar leaf tobacco, temperature changes in fermenting piles of.	A26.3:14
1899 Electrical method of determining soluble salt content of soils,	A1.8:60
etc. 1897. Whitney, Milton, Gardner, Frank Duane, and Briggs, Lyman James.	A26.3:8
Electrical method of determining moisture content of arable soils. 1897.	A26.3:6
Whitson, James H. Agriculture in Idaho Territory. 1869. p. 369. Whittle, C. L. Roads, forces which operate to destroy, with notes	A27.9:7
on road stones and problems therewith connected. 1897 Wiechmann, F. G. See, as collaborator, Wiley, Harvey Washington.	A22.4:29
Wickson, E. J.: Climatology and horticulture. 1900. p. 45	A10.3:76
Dairying in California. 1896	A4.3:14
field and garden. 1901	A1.9:138
in fruit growing. 1900	A1.9:116
of deciduous fruits, notes on. 1900. p. 80	
practice among fruit growers on Pacific coast. 1902	
Wide tires, laws of certain States relating to their use (Stone). 1895. Widmann, Otto. House sparrow, passer domesticus, and European tree sparrow, passer montanus, at St. Louis, Mo., history of.	A22.3:12
Wier, D. B. Plums, native, how to fruit them, they are practically	A5.3:1
curculio proof. 1887. p. 39	A9.3:14
Wiggins, S. M. Truck farming in Louisiana. 1887. p. 240	A27.9:25
p. 194	A9.7:6
New Zealand katipo, report on. 1889. p. 134.	
Potato-tuber moth, report on. 1893. p. 163	A9.7:5
Root fungus of New Zealand. 1889. p. 199	A28.5:5
Wilbour, Joshua. Animals, dead, disposition of, in Dublin. p. 347. Wilcox, Earley Vernon:	A4.1:899
Calves, feeding, with milk of tuberculous cows. 1899. p. 23	
Cattle, northern, protecting against Texas fever. 1900. p. 27	
Larkspur poisoning of sheep. p. 473	A4.1:898
Milk, tuberculosis in, killing the germs of. 1899. p. 24	A1.9:107
Paris green, low grade, use of, to fruit growers. 1900. p. 14	
Petroleum, crude, as an insecticide. 1900. p. 15	A1.9:114
Plant poisoning of stock in Montana. p. 91  See also, as joint author, Allen, Edwin West—Chesnut, Victor King.	A4.1:900
Wild, Heinrich, short biography of. 1902. p. 451	A29.6:30
Wild-cherry leaves, poisoning by (Evans). p. 16	A1.9:103
Wild flowers (Gardner). p. 155. Wilder, Marshall P. American Pomological Society, history and	A1.1:862
progress of. p. 149 Wilder, Marshall P., Thompson, Alexander, Flagg, William J., and	A1.1:870
Barry, Patrick. Vine, culture and products of, report to	
United States Commission at Paris Exposition of 1867. p. 163. Wiley, Harvey Washington:	A1.1:867
Address of, as president of Association of Official Agricultural Chemists, at third annual convention. 1886. p. 6	A7.3:12

	Classification
ley, Harvey Washington—Continued	<b>)</b> 1
Agricultural chemical analysis, apparatus used in, some new	A 77 0.00
forms of, explanation of. 1890. p. 96	A1.3:28
Beet-sugar industry in United States—	A7.5:49
1897. p. 11	41 2.R30
1898. p. 131	A1 2·B39
1900. p. 123	A1 8.69
Butter, nostrums for increasing yield of. 1893	A1.9:12
Butter fat, refractive index of. 1888. p. 36	A7.3:19
Canned meats, chemical examination of, circular on. 1899	A7.4:5
Cereals and cereal products, adulteration of, investigations made	
under direction of, with collaboration of Karl P. McElroy,	t t
William Henry Krug, T. C. Trescot, Willard Dell Bigelow,	
and others. 1898. p. 1169	A7.3:13°
Cereals collected at World's Columbian Exposition, analyses of	
and comparisons with other data. 1895	A7.3:45
Chemistry Division, Agriculture Department, work of, for farmer.	ĺ
1897. p. 76	A1.10:897
Chemistry, relation of, to progress of agriculture. 1899. p.	
	<b>A1.1</b> 0:899
Chemists, Official Agricultural, Association of, historical sketch of.	AT O.ET
1899. p. 16	A7.3:57
Diffusion— its application to sugar cane, and record of experiments with	
application to sugar came, and record of experiments with	A7.3:2
sorghum in 1883. 1884	A1.5.2
sugar from sugar cane and sorghum, and for use of lime	
and carbonic and sulphurous acids in purifying the diffu-	
sion juices. 1886	A7.3:8
Diffusion and carbonatation, experiments with, at Ottawa, Kans.	1211.0.0
1885	A7.3:6
Industries and arts, true relations of science to. 1883. p. 32	A1.7:2
Infant and invalid foods, analysis of, provisional methods for.	
	A7.3:65
1902. p. 41 Lard and lard adulterants. 1889. p. 405	A7.3:134
Maize (Indian corn)—	[
composition of, etc. 1898	A7.3:50
same (French abstract). 1900	A7.4:6
food value of. 1891. p. 17	A1.8:49
Mineral phosphates as fertilizers. 1894. p. 177	A1.10:894
Northern sugar industry, a record of its progress during season	4700
of 1883	A7.3:3
Pigs, carcasses of, chemical composition of, report on, with col-	-
laboration of Ervin Edgar Ewell, William Henry Krug, T. C.	17 9.59
Trescot, and others. 1898.  Plants, chemical composition of, influence of environments on.	A7.3:53
1901. p. 299	A1.10:901
Potash and its function in agriculture. 1896. p. 107	A1.10:896
Proteid bodies, separation of, from flesh bases by means of chlorin	111.10.000
and bromin. 1898. p. 27.	A7.3:54
Soil ferments important in agriculture. 1895. p. 69	1
Sorghum cane, experiments with. 1883. p. 423	
Sorghum, experiments in manufacture of sugar from—	
1886, at Fort Scott, Kans	A7.3:14
1888, at Rio Grande, N. J., Kenner, La., Conway Springs,	
Douglas, and Sterling, Kanssame, in 1889	A7.3:20
same, in 1889	A7.3:26
1890	
1891, report on, with collaboration of Guilford Lawson	
Spencer, Albert A. Denton, and Wibray J. Thompson	A7.3:34
1892, with collaboration of Albert A. Denton, Glen O'Brien,	
C. I. Hinman, Wibray J. Thompson, John L. Fuelling,	47.0.07
1802 with collaboration of Ome Compand O F Uinner	A1.5:51
Starch, manufacture of, from potatoes and cassava. 1900	A7.3:40
and Oma Carr  1893, with collaboration of Oma Carr and C. I. Hinman	A7.3:40 A7.3:58

	Classification no.
Williams, H. E.:	
Food products, protection of, from injurious temperatures. 1901.	A1.9:125
Harmon, John H., short biography of. 1899. p. 107	A29.6:27
Temperatures injurious to food products in storage and during	
transportation and methods of protection from same	<b>A29.3:13</b>
Wappenhans, C. F. R., short biography of. 1902. p. 87	
Williams, Thomas Albert:	
Crimson clover. 1899.	A3.4:17
Forage, succulent, for farm and dairy. p. 613	A1.10:899
Grass and forage investigations, cooperative work of Department	
of Agriculture with State experiment stations. 1900	A1.4:8
same. 1901. p. 148.	A10.3:99
Grasses and forage plants and forage conditions of eastern Rocky Mountain region. 1898	
Mountain region. 1898	A3.3:12
Grasses and forage plants of the Dakotas. 1897	A3.3:6
Millets, report on—	
1898. p. 267	A1.10:898
1899	
Poa fendleriana and its allies. 1899	A3.4:10
Prairie pastures, worn out native, renewing of	A3.4:4
Rape as a forage plant. 1899	A3.4:12
Sorghum as a forage crop	
Soy bean as a forage crop	
Timothy in prairie region. 1896. p. 147	A 1.10:896
Williams, W. Bronchitis in cattle. p. 603	A1.1:880
Williams, W. L.:	
Cerebro-spinal meningitis, enzootic, among horses, and hog	
cholera in Idaho. 1898. p. 179.	A4.1.897
Mares, infectious abortion of. p. 449	A4 1.889_90
Willis area, Texas, soil survey of (Martin). p. 607	A 26 5.901 1
Williston, S. W.:	2220.0.001
Australian parasite of Icerya purchasi. 1888. p. 21	AQ 7·1
Relyagie study of 1893 n 238	AQ 7.5
Belvosia, study of. 1893. p. 238.  Diptera of Death Valley expedition, list of. 1893. p. 253	A5 5.7
Lestophonus, genus, note on. 1889. p. 328.	AQ 7.1
Willits, Edwin:	A0.1.1
Address of—	
before convention of National League for Good Roads. Wash-	
ington 1893 n 21	A10.3:14
ington, 1893. p. 21 before sixth annual convention of Association of Official Agri-	1110.0.12
cultural Chemists. 1889. p. 6	A7.3:24
Agriculture, Assistant Secretary of, duties of, special report on.	21.0.24
p. 67	A1.1:892
Agriculture, practical, scientific work of Department of Agricul-	M1.1.004
ture in its relations to. p. 59	A1.1:890
Black-rot, downy mildew, and anthracnose of grape, questions	M1.1.090
regarding	A28.4:11
Chicago World's Columbian Exposition, special report on. p. 53.	
same	A5.1:893
	AU.1.000
Educational forces in United States relating to agriculture, cooperation of Department of Agriculture with. p. 65	A1.1:891
Fiber plants, raising and testing of. 1890. p. 124	A10 5.9
Industrial advantion names on 1995 n 55	A10.0.2
Industrial education, paper on. 1885. p. 55	A1.7.5
Letter on Icerya purchasi. 1889. p. 15.  Peach trees, leaf curl of, letter of inquiry relative to. 1893  Textile fiber production. p. 46	A 90 A . 1 9
Towtile Shor production in 48	A1 1.000
Willow:	A1.1.008
	AQ 7.9
Cimbex injuring, in Nebraska (Webster). 1890. p. 228	A97 0.11
Willow-shoot sawfir manage on (Dilay) 1999 - 9	ΑΔΙ.σ.11 ΔΟ 7·1
Osier, note on (Watts). 1873. p. 419. Willow-shoot sawfly, report on (Riley) 1888. p. 8. Willow slug, yellow-spotted, report on (Howard). 1888. p. 33	AQ 7.1
Willson, George H.:	AU. ( · l
San Francisco weather-forecast district, report of, Feb., March,	-
same, Sept., Oct., 1900	A 20.0.21
See also, as joint author, McAdie, Alexander G.	A40.0.40
Wilson, C. T. R. Atmospheric air, ionisation of. 1901. p. 159	A 20 A 20
villous, of a live administration with toutous of the period of the peri	

Index	63 14 11
Wilner C. W. Oleanonenine in muliants of m. 510	Classification no.
Wilson, G. W. Oleomargarine, ingredients of. p. 513	A4.1:900
Address of—	
before American Association of Farmers' Institute Workers,	
at seventh annual meeting. 1902. p. 45.	A10.3:120
before Association of American Agricultural Colleges and	
Experiment Stations, at twelfth annual convention. 1898.	A 3.0, 0.05
p. 42	A 10.3:65 A 4.1:901
Forests and forest conditions of southern Appalachian mountain	A4.1.501
region. p. 13	A1.2:Ap4 2
region. p. 13 Speech delivered July 7, 1902, at school of agriculture, Colum-	<u>.</u>
bus, Ohio See also, for reports as Secretary of Agriculture, 1897–1901	A1.2:W69
Nee also, for reports as Secretary of Agriculture, 1897–1901	A1.1:
Wilson, James, and Curtiss, Charles Franklin. Lambs, feeding of. p. 463.	A4.1:898
Wilson, James Maxwell:	
Irrigation investigations—	
Cache Creek, Cal. 1901. p. 155	A10.3:100
Nevada. 1902. p. 147	A10.3:104
Water laws of Nebraska. 1899. p. 58	A10.3:58
Wilson, James W. See, as joint author, Curtiss, Charles Franklin.	
Wilson, James W., and Hill, George G. Chicago, Ill., international	
live-stock exposition of 1900, notes on. p. 63	A4.1:900
Wilson, Lawrence. Live-stock industry, condition of, west of Mis-	A 4 1.00F
sissippi River. p. 429. Wilson, Thomas. Lace, description and history of. 1897. p. 359.	A4.1:885
Wilson, Wilford M.:	A11.0.3
Climate and man: with special regard to climate and climatic	
elements as curative or causative agencies of disease. 1902.	
p. 104	A29.3:31
"Indian summer." 1902. p. 440	A29.6:30
Meteorological statistics, how to improve them to meet needs of medical profession, etc. 1899. p. 82	
Wilt disease:	1220.0.21
Cotton and its control (Orton). 1900	A28.3:27
Cotton, watermelon, and cowpea (Smith). 1899	A28.3:17
Cowpea and its control (Orton). 1902	A19.3:17
Wind-barometer table, report on (Garriott). 1897. p. 204	
Wind scale, Beaufort, as used at sea (Abbe). 1894. p. 175	A29.6:22
Wind signal orders, cipher code of, amending instructions to special	
displaymen. 1892. Wind vanes (Cronk). 1899. p. 165.	A29.2:C49
Wind vanes (Cronk). 1899. p. 165	A29.3:24
Windmills: Efficiency of, note on (Abbe). 1897. p. 164	A 20 R 25
Feed mills and 1902, p. 31	A1.9:149
Wind-rush at Washington, D. C., Sept. 29, 1896 (Hazen). p. 322	A29.6:24
Windstorm, local electricity in, in Wyoming (Abbe). 1894. p. 509.	A29.6:22
Winds:	A 00 0.0F
Clouds and, report on (Brillouin) 1897. p. 437	A29.6:25 A29.6:26
Direction and velocity, hourly results from self-registers for	A28.0.20
recording (Abbe). 1897. p. 252	A29.6:25
Direction of—	
some observations of, at different altitudes around West India	4.00, 0.00
cyclones (Boyer). 1892. p. 50	A29.6:20 A29.5:F
vertical gradients of (Frankenfield). 1898	A&J.U.F
1901. p. 299	A 29.6:29
Effect of, on catch of rainfall (Abbe). 1899. p. 308	A29.6:27
same (Symons). 1899. p. 454.  Effect of mountains on (Abbe). 1894. p. 510	A29.6:27
	A29.6:22
Force of— first attempt to measure (Abbe), 1896, p. 335	A 29 R-94
first attempt to measure (Abbe). 1896. p. 335in tornadoes, notes on (Kimball). 1901. p. 419	A29.6:29

Classification no.

	Classincation n
Winds—Continued	
Hot—	100.000
chinooks and (Abbe). 1894. p. 77	A29.6:22
Kansas (Abbe). 1897. p. 260	A29.6:25
Missouri (Abbe). 1897. p. 260	A29.6:25
Hurricane, studies on (Abbe). 1894. p. 372.	A29.6:22
Injurious to vegetation and crops (Curtis). 1895. p. 435	A29.3:11*
Japan and Arizona (Abbe). 1895. p. 255  Local, that are not tornadoes, notes on (Abbe). 1899. p. 312.	A29.6:23
Local, that are not tornadoes, notes on (Abbe): 1899. p. 312	A29.6:27
Maximum pressure of, note on (Abbe). 1900. p. 68	
Measurement of, notes on (Abbe). 1898. p. 358.	A29.6:26
Minnesota, movements of (Abbe). 1897. p. 252.	A29.6:25 A29.6:
Monthly notes on, July, 1891–Oct. 1902	A29.0.
400 400	A29.6:23
New Haven, 1873–1900 (Davis). p. 261	A29.6:30
Nomenclature of, report on (Proctor). 1897. p. 54	A29.6:25
Origin of descending gusts of (Abbe). 1897. pp. 351, 447	A29.6:25
Phenomena and lake levels (Henry). 1900. p. 203	A 29.6:28
Popular queries about, with answers (Kimball). 1901. p. 422.	A29.6:29
Prevailing and resultant, comparison of (Abbe). 1893. p. 365	
same (Abbe), 1897, p. 400	A29.6:25
Rain gage and notes on (Abbe). 1899. p. 464	A29.6:27
Resultant—	
calculation of, notes on (Abbe). 1899. p. 421	A29.6:27
mechanical determination of, note on (Abbe). 1897. p. 540.	A29.6:25
Sand dunes and, notes on (Abbe). 1901. p. 176	A29.6:29
Temperature and, notes on (Abbe). 1901. p. 218	A29.6:29
Velocity and fluctuations of water level on Lake Erie (Henry).	
1902	A29.5:J
Velocity of, early measurements of (Abbe). 1896. p. 459	A29.6:24
Warm, note on (Abbe). 1895. p. 57	
Weather and, local contrasts of (Abbe). 1894. p. 509	$\mathbf{A29.6:22}$
See also, Anemometer — Baguios — Chinook winds — Clima-	
tology — Cyclone — Dancing dervishes — Derecho — Hurri-	
canes — Pamperos — Tornadoes — Typhoon.	, 4.00 (0.00
Windward Islands, rainfall of (Jefferson). 1901. p. 56	A29.0:29
Wine land, is Texas a? (Bauer). 1869. p. 451	A27.9:6
Adulteration of (Crampton). 1887. p. 263	A7 2·123
American—	A7.0.10
composition of (Bigelow). 1900	A7.3:59
composition of, and substances used in their adulteration	111.0.00
(Crampton), p. 183	A1.1:887
wine grapes and, examination of. 1867. p. 327	A27.9:5
wine-making and (Husmann). p. 154	A1.1:867
Analysis of, European methods of, etc. 1887. p. 383	A7.3:13 <sup>3</sup>
Beers, etc., analysis of, methods proposed for adoption for use in	
Austria. 1893. p. 155.	A7.3:38
Chemical analysis of (McMurtrie). 1873. p. 240	A27.9:11
Consumption of, in United States, per capita of population—	
1870–1895. p. 552	
1896. p. 595	A1.10:896
1898. p. 723	A1.10:898
Copper in (Fallot). 1890. p. 96	A6.3:11
French crop. 1875. p. 115.	A27.9:14
French, adulteration of, 1876. p. 365	A27.9:14
Growing in California. 1808. p. 280	AZ1.9:0
Heating of (McMurtrie). 1873. p. 244.	A27.9:11
Making—  man aultum in El Dago del Nerte and (Diamon) 1972 m 24	A 97 O.11
grape-culture in El Paso del Norte and (Pierson). 1873. p. 24.	A27.8:11
vine culture in Middle States and (Lodge). p. 118	A1.1:866
Manufacture of grape, blackberry, and other fruit wines, on Gall's method (Rossert) n 156	A1 1.989
method (Bossert). p. 156	A27 9.20
New Mexico. 1866. n. 424	A 27 9.4
New Mexico. 1866. p. 424.  Poisoning in France. 1876. p. 487	A27.9:14
	,,

Index	Marsidantian no
Wines—Continued Production of—	Classification no.
in France in 1883. 1884. No. 9. p. 45	A27.9:22 A1.8:22
Scuppernong, analysis of— 1868. p. 362 1869. p. 22	A27.9:6 A27.9:7
See also California wines and brandies — Grape must — Grape vine — Grapes — Vine.	
Wing, H. H.: Dairy industry of United States, report accompanying exhibit of Animal Industry Bureau, at Paris Exposition of 1889. p. 387.	A4.1:887-8
Feeding experiments, special points bearing on. 1891. p. 93	A10.5:3 A19:3:15
Winslow, Alfred A. Horse breeding in Belgium. p. 503	A4.1:900
p. 360	A4.1:899 A22.3:23
Winter: Bee-keeping in (Tupper). p. 209 Farm animals in. 1875. p. 84	A1.1:867
Forage crops for the South (Ball). 1902	A1.9:147 A29.6:28
Irrigation of deciduous orchards. 1901. p. 12. Severe, benefits of (Abbe). 1899. p. 62. Winter washes, experiments with, against San Jose scale, season of	A1.9:144 A29.6:27
1894–95 (Marlatt). 1895. p. 365	A9.7:7
Are our winters changing? (Henry). 1898. p. 540	A29.6:26 A27.9:6
Address of, as president of Association of Official Agricultural Chemists at fifteenth annual convention. 1898. p. 9	A7.3:56
sional method for. 1902. p. 98 Milk, solids and fat in, Babcock gravimetric method for deter-	A7.3:65
mination of. 1893. p. 119	A7.3:38
with and without? 1894. p. 192 Lindo-Gladding method of determining, report of use of sodium chloride in. 1891. p. 148.	A7.3:43 A7.3:31
Spices, analysis of, provisional method for. 1902. p. 55	
Wire: Early use of, in kite flying (Fergusson). 1897. p. 135 Irrigation by use of, notes on (Betts). 1899. p. 301	
same (Abbe). 1899. p. 473  Wire fences, lightning on, notes on (Abbe). 1898. p. 466  Wireless telegraphy, note on (Abbe). 1900. pp. 12, 113, 294	A29.6:26
Wireworms: Life history of (Hart). 1891, p. 246	A9.7:3
Soda ash for. 1869. p. 300 Wisconsin: Cattle trade and allied industries of (Perry). p. 125	A27.9:7 A4.1:886
Clover-seed midge in, note on. 1886. p. 39.  Farm resources and products of. 1868. p. 189  Farmers' institute work accomplished in (McKerrow). 1902. p. 31.	A9.3:12 A27.9:6
Flax culture in (Bosse). 1892. p. 43	A11.5:4 A13.3:16
same, introduction to report (Fernow). 1898. p. 7. Fruit culture in. 1868. p. 322 Horticulture in (Peffer). 1882. p. 174	A13.3:16 A27.9:6 A1.8:22
Irrigation experiments in (King). 1902. p. 313	A10.3:119

	Classincation be
Wisconsin—Continued	•
Live-stock industry of, condition of (Campbell). p. 321	A4.1:889-90
Northern, wild fruits of. 1890. p. 484	A27.9:28
Sugar-beet experiments in, in 1891 (Woll). p. 90	A7.3:33
See also La Crosse — Milwaukee — New Richmond — Whitewater.	
Wisconsin Agricultural Experiment Station farm, ground-water on,	100 0 7
fluctuations in level and rate of movement of (King). 1892	A29.3:5
Witch-hazel, two species of plant-lice inhabiting, life history of	4000
(Pergande). 1901	A9.8:9
Withcombe, James. Sheep husbandry of Pacific Northwest. 1900.	A 1 0.117
p. 5	A1.9:117
	A10.3:115
1902. p. 87	A10.3.110
Ammonium sulphate and cotton-seed meal in different soils,	
nitrification of. 1902. p. 36	A7.3:67
Nitrification of certain fertilizers. 1901. p. 25	A7.3:62
Woeikoff, A. Rainfall and charts of rainfall. 1902. p. 232	A29.6:30
Wohl, A. Carbohydrates, character of, abstract of paper on. 1890.	
p. 134.	A7.3:28
Wolfer, A. Wolf's sun-spot relative numbers, revision of. 1902.	
p. 171. Wolfinger, J. P. Indian corn culture. p. 215.	A29.6:30
Wolfinger, J. P. Indian corn culture. p. 215.	A1.1:866
Wolf's sun-spot relative numbers, revision of (Wolfer). 1902.	4 00 0 00
p. 171	A29.6:30
Woll, Fritz Wilhelm:	
Agricultural education and research in Scandinavian countries and Finland. 1898. pp. 605, 703	A10.6:9
Agricultural education in Scandinavian countries, notes on. 1897.	A10.0.8
· · · · · · · · · · · · · · · · · · ·	A10.4:32
Scandinavian seed-control stations, report on. 1899. p. 4	A10.6:10
Sugar-beet experiments in Wisconsin in 1891. p. 90	A7.3:33
Wollaber, A. B. Thermographs, furnishing of, to voluntary	
observers, records to be kept at section centers. 1902.	
p. 219	A29.3:31
Wollaber, E. A. Portland, Oreg., weather forecast district, monthly	
report of, September, 1900.	A29.6:29
Same. February, 1901	A29.6:30
Wollny, Ewald:  Physical proportion of soil poture of 1906 pp. 761 952 049	A 10 Q.Q
Physical properties of soil, nature of. 1896. pp. 761, 853, 948 Soil, relation of physical properties of, to cultivation of plants.	A10.6:6
1893. pp. 528, 627	A10.6:4
Soils—	1110.0.1
artificial changes of physical properties of. 1900. p. 604	A10.6:11
physical properties of, adaptation of methods of cultivation	
and manuring to. 1900. p. 805	A10.6:11
Wollny method, application of, to mixed butters (Besana). 1890.	
p. 105	A7.3:24
Wolves. See Cattle.	1100110
Women's farm institutes (Maddock). 1902. p. 46	A10.3:110
Wood, Mrs. A. F. See, as translator, Charpentier de Cossigny, M. J.	
Wood, Peter. Dew-point, value of, in forecasting weather under	A29.3:31
certain conditions. 1902. p. 152	A28.3:31
American, thirty-two species of, summary of mechanical tests on.	A13.4:15
Characteristics and properties of, elementary discussion of (Roth).	2110.7.10
1895	A13.3:10
same, introduction to (Fernow). 1895. p. 5	A13.3:10
Consumers of, information to, relative to increasing durability of	
timber (Colman). 1887.	A13.4:3
Different kinds, how to distinguish (Fernow and Roth). 1895.	
p. 59	A13.3:10
Mechanical tests made at Washington University testing labora-	A 1 0 0 0
tory, St. Louis, Mo. (Johnson). 1893. p. 3	A13.3:8
Mechanical tests of, results of (Johnson). 1893. p. 22	A13.3.8 A13.3:10
more important, or norm america, key w. 1000. p. 02	T10.0.10

index	(NaralGaattan
Wood—Continued	Classification no.
Native, descriptive catalogue of manufactures of, as shown in	
exhibit of Agriculture Department at World's Industrial and	
Cotton Exposition at New Orleans, La. (Dodge). 1886	A1.7:10
Preservation of—	
1866. p. 287 1884 (Flad). p. 66	A27.9:4
1884 (Flad). p. 66	A13.3:1
same, reprint. 1894. p. 257.	A13.3:9
1887 (Constable). p. 92	A13.3:1 A13.3:9
Quality, etc.—	A10.0.8
1895. p. 590	A1.10:895
1895. p. 590 1896. p. 628	A1.10:896
Seasoning, experiments in (Ellis). 1889. p. 57	A13.3:3
Structure of, of five southern pines (Roth). p. 133	A13.3:13 <sup>1</sup>
same, rev. ed. 1897. p. 143	A13.3:13 <sup>2</sup>
Test material, field records of (Mohr). 1893. p. 50	A13.3:8
Trade in certain States (Baker). 1884. p. 198	A13.5:4
questing information relative to. 1883	A13.2:L97
Trade of New Hampshire and West Virginia (Hough). 1884. p.	A13.2.157
348	A13.5:4
Trade of Western States and Territories (Furnas). 1884. pp.	
246, 255	A13.5:4
Uses of (Roth). 1896. p. 391	A1.10:896
See also Lumber — Timber.	
Wood char. See Brown coal and wood char.	A1001
Wood-creosote oil, report on (Bixby). 1887. p. 99	
Same, reprint. p. 282. Wood duck and woodcock, two vanishing game birds (Fisher).	A13.3:9
1901. p. 447	A1.10:901
Wood-leopard moth in parks of New York City (Southwick). 1894.	111.10.001
p. 138	A9.7:7
Wood lot belonging to E. D. Page, at Oakland, Bergen County, N. J.,	
working plan for (Graves). 1898. p. 301.	A1.10:898
Woodcock and wood duck, two vanishing game birds (Fisher). 1901. p. 447	A1.10:901
Wooden ties. See Railroad ties.	A1.10.801
Woodford, E. S. Fish culture, letter on. 1869. p. 376*	A27.9:7
Woodhaven, Long Island, N. Y., tornado at (Emery). 1895. p.	
252	A29.6:23
Woodhull, —. Agricultural Department, bureau of information	41 70
and exchange in, address favoring creation of. 1885. p. 90 Woodpeckers:	A1.7:9
Food of (Beal), 1895	A5.3:7
Food of (Beal). 1895. Tongues of (Lucas). 1895. p. 35.	A5.3:7
Woods, Albert Fred:	
Bermuda lily disease, preliminary report of investigations. 1897.	A28.3:14
Mosaic disease of tobacco. 1902	A19.3:18
Plant physiology in relation to horticulture and agriculture. 1901.	A 10, 9,00
p. 127	A10.3:99
Stigmonose, a disease of carnations and other pinks. 1900	
Vegetable physiology and pathology, work in. 1898. p. 261	A1.10:898
Vegetable physiology and pathology, work in. 1898. p. 261	•
1895. p. 257	A1.10:895
See also, as joint author, Galloway, Beverly Thomas.	
See also, for report as acting Chief, Division of Vegetable Physiology and Pathology, 1898.	A28.1
Woods, Albert Fred, and Dorsett, Palemon H. Hydrocyanic acid	A 20. 1
gas, use of, for fumigating greenhouses and cold frames. 1899.	A9.5:37
Woods, Charles Dayton:	
Beef, American and European, comparative composition of,	
report accompanying exhibit of Animal Industry Bureau, at	A A 1.007 O
Paris Exposition of 1889. p. 426	A4.1:00(-0

•	Classification no
Woods, Charles Dayton—Continued	
Meats, composition and cooking. 1896.  See also, as joint author, Atwater, Wilbur Olin — Wheeler,	A1.9:34
Homer Jay.	
Woods, Chas. Dayton, and Merrill, L. H. Bread, investigations on	
digestibility and nutritive value of. 1900	A10.3:85
Woodsman's Handbook, pt. 1 (Graves). 1902	A13.3:36
Woodward, J. J. Pleuro-pneumonia among cattle, pathological	A 1 0.0004
anatomy and histology of respiratory organs in. 1871. p. 64.	A1.2:C29 <sup>2</sup>
Woodworth, C. W: California, notes from, on insects. 1900. p. 90	A9.6:26
Entomology, economic, laboratory method of experimentation	110.0.20
in. 1891. p. 266	A9.7:3
Woody plants, wounds in, pruning and care, principles of (Woods).	
p. 257	A1.10:895
See also Trees.	
Wool:	
American—	A 07 0-0
future of (Newton). 1864. No. 1. p. 12	A27.9:Z
note on. 1864. No. 6. p. 6.	
Arabian trade in. p. 607	A27 9·11
British imports, JanMarch, 1868-69. p. 240	A27.9:7
Buyers of, protection against. 1868. p. 247	A27.9:6
Consumption of, estimate of, etc. 1867. pp. 16, 66	A27.9:5
Domestic, prices of, 1855–69. p. 46	A27.9:8
Domestic and foreign. 1890. p. 283	A27.9:28
Electoral, culture of, in South, facts relative to. 1878. p. 124	
Export of, from Montevideo in 1901. p. 607	A4.1:901
German production and manufacture. 1876. p. 494	A27.9:14
Germany's import (Stern). p. 520	A4.1:899
Growing— Australia (Kanworthy) p. 204	A1 1-984
Australia (Kenworthy). p. 204 California, 1854–74. p. 248	A27.9:13
decrease of. 1869. p. 143	A27.9:7
interest in United States. 1866. p. 66	A27.9:4
profits of, and future wool market. 1864. No. 1. p. 20	A27.9:3
test of. 1865. No. 6. p. 24	A27.9:3
Uruguay (Loggin). 1870. p. 436	A27.9:8
Hungary, industry. 1873. p. 191.	A27.9:11
Industry in. 1887. p. 33	A27.9:20
Production and prices of, Italy. 1895. p. 144	A27.8:33
Liverpool, trade. 1868. p. 35	A27.9:6
On hand—	11211010
Apr. 1867. p. 149	A27.9:5
Apr. 1868. p. 185	A27.9:6
Apr. 1869. p. 135	A27.9:7
Popular fallacies concerning. 1867. p. 367.	A27.9:5
Prices of. 1867. p. 246	A27.9:0
Production and consumption of. 1866. p. 297	A21.8:4 A4 1.000
Prospect in, 1867, note on. p. 334	A 27 9.5
Railway charges for transportation of. 1896	A27.8:10
Retrognect 1892 n 175	
Sheep's, substitutes for. See Alpaca.	
Silesian (Erdman). p. 521	A4.1:899
Silesian (Erdman). p. 521. South American production. 1875. p. 525.	A27.9:13
Statistics of, in a nutshell, 1870–87. p. 354.	A27.9:26
Trade in, 1867–68. p. 56. United States, products. 1901	A27.9:7
	A4.1:901
World's clip of—	A 97 Q-14
1875. p. 94 1894. p. 121	A27.9.32
1899. p. 671	A4.1:899
1900. p. 591	
See also Sheep and wool.	
•	

	Classification no.
Wool and woolen mills, statistical report upon [statistics collected	111004
by the Department]. p. 505 Woolens, insects which attack, fumigation with bisulphide of carbon	A1.1:864
for complete and rapid destruction of (Du Bysson). 1893. p. 159 Woolly aphis:	A9.7:6
California remedies for, note on. 1886. p. 43	
circular relative to (Marlatt). 1897	A9.5:20
See also Aphis.	
Wools and other animal fibers, examination of (McMurtrie). 1886. Wools of United States. p. 187.	A1.2:W88 A1.1:871
World's Agricultural Congress, 1893. See Chicago, Ill., World's Agricultural Congress.	
World's Columbian Exposition, 1893. See Chicago, Ill., World's Columbian Exposition.	
World's Industrial and Cotton Centennial Exposition. See New Orleans, La., World's Industrial and Cotton Exposition.	
World's markets for American products	A12.3:
worms—Cottonworms—Cutworm—Stalkworm—Webworm.	
Worth, S. G. Cloud-burst at Erwin, Tenn. 1898. p. 244	<b>A2</b> 9.6:28
Department, 1878–1880	A27.1:
Wray, William H.:	111.2.11.0
Great Britain, American animals and animal productions in. p. 440	A4.1:898
Horse trade with Great Britain. 1898. p. 50	A1.2:H78
Horses, American thoroughbred, in England. p. 503	A4.1:899 A4.1:895-6
Wrecks. See Great Lakes.	
Wren, H. B. Climate and corn, report on, relation of. 1902. p. 8 Wright, Frank Bennett. Weather Bureau of Japan. 1900. p. 381.	A29.6:29 A29.6:28
Wright, John A. C.: Address of, before convention of National League for Good	
Roads, Washington. 1893. p. 34	A10.3:14
Highway legislation in New York, history of. 1901. p. 29	
Wright, M. Galveston, Tex., tornado, Nov. 6, 1892. p. 309	A29.0.20
Agricultural productions of. 1869–70. p. 206	
Pomology in (Schickler). 1870. p. 153	
Wyandotte, American breeds of fowls, 2 (McGrew). 1901	
Wyoming: Agricultural resources of. p. 548	A1.1:870
Agricultural survey of (Hoyt). 1893	A27.8:7
Cattle industry of (McNeely). p. 377	A4.1:898
Duty of water in (Johnston). 1900. p. 171.	A10.3:86 A13.3:2
Forest conditions of Rocky Mountains in (Ensign). p. 41	
p. 65	A15.2:Ar7
Irrigation in, use of water in, and its relation to ownership and distribution of natural supply (Buffum). 1900	A10.3:81
Irrigation system of (Bond and Wilson). 1901. p. 47 Live-stock industry of, condition of (McNeely). p. 425	A10.3:96
Live-stock industry of, condition of (McNeely). p. 425	A4.1:889-90
Prairie dog, from, description of new (Merriam). 1890. p. 33 Water supply of, for season of 1900, as depending on snowfall	AU.U.T
Weather Bureau, stations of, notes on (Abbe). 1900. p. 17 Windstorm in, local electricity in (Hunton). 1894. p. 509	A29.6:28 A29.6:22
See also Laramie Plains — Red Desert of Wyoming — Wheatland.	43.54V+V+46
Wyoming Experiment Station, recent investigations by, in alkali and irrigation (Buffum). 1900. p. 69	A10.3:76
Xanthium strumarium. See Cocklebur. Xanthium trypeta, report on (Marlatt). 1891. p. 312	
THE PROPERTY OF THE PROPERTY O	,

•	Index
	Classification no.
Xenia, or immediate effect of pollen in maize (Webber). 1900	A28.3:22
notes on (Wheeler). 1890. p. 222	A9.7:2
Yakima area, Washington, soil survey of (Jensen and Olshausen). p. 389 Yakima Valley, Wash., irrigation in, use of water in (Waller).	A26.5:901 1
1902. p. 241.  Yakutat Bay, Alaska, botany of (Coville and Funston). 1895.	A10.3:104
p. 325 Yale. See Harvard and Yale.	A6.5:3
Yams in West Indies (Fairchild). 1899	AR 1.91
Yardstick, value of the, note on (Abbe). 1897. p. 19	
Yards, disinfection of, by fire (Stiles). 1902. p. 15	$\mathbf{A4.3:35}$
Yaupón, chemical notes on (Smith). 1872. p. 20	A27.9:10
Yazoo area, Mississippi, soil survey of (Bonsteel and party). p. 359.	
Yearbooks of Agriculture Department:	A1.10:
Index to, 1894–1900 (Greathouse). 1902	A21.3:7
Yellow-spotted willow-slug, report on (Howard). 1888. p. 33	A9.7:1
Yellowstone National Park: Government road system of (Chittenden). 1901. p. 72	A 99 2.91
Letter relative to forest needs of (Hague). 1888. p. 206	A13.3:2
Yellowstone Valley, alkali soils of, from preliminary investigation of	1110.0.2
soils near Billings, Mont. (Whitney and Means)	A26.3:14
Yerby, M. H., short biography of (Chaffee). 1900. p. 539	A29.6:28
Yermoloff, Alexis. Phosphates, Russian mineral. 1873. p. 22	A27.9:11
Yocum, J. H. Tannin, determining, by hide power, notes on points	
of error in shake method of. 1894. p. 204	A7.3:43
Young, John A. Sheep husbandry in North Carolina. 1878. p. 115.	A1.2:Sh3
Young people attending farmers' institutes, how to interest and	A10.3:110
instruct (Spencer). 1902. p. 42	A10.5:110 A27.9:6
Yuba River, California:	A27.0.0
Features and water rights of (Manson). 1901. p. 115	A10.3:100
Use of water of (Connick). 1901. p. 100.	A10.3:100
Yuccas, geographic and vertical distribution of, in deserts and desert	
ranges of southern California, southern Nevada, northwest-	
ern Arizona, and southwestern Utah (Merriam). 1893. p. 345.	A5.5:7
Yucatan:	A1.1:868
Niin of, nature and uses. p. 268 Sisal-hemp industry in (Dodge). p. 49.	
Storm in, note on (Abbe). 1900. p. 155	A29.6:28
Yucca insects and yucca pollination, further notes on (Riley). 1893.	112010120
p. 300	A9.7:5
Yucca pollination, notes on (Riley). 1889. p. 367	A9.7:1
Yucca whipplei, pollination of, in California (Coquillett). 1893.	
p. 311	A9.7:5
Yukon Valley: Agricultural and horticultural conditions in, preliminary report	
on (Jackson). 1898. p. 35	A 10 3 48
Agricultural possibilities of (Brainerd). p. 276	A10.13:901
Yukon region:	•
Birds of, with notes on other species (Bishop). 1900. p. 47	A5.5:19
General account of (Osgood), 1900, p. 7	A5.5:19
Mammals of (Osgood). 1900. p. 21. Meteorology of, report on (Myers). 1899. p. 100.	A5.5:19
Meteorology of, report on (Myers). 1899. p. 100	A29.6:27
Yukon Valley, weather of, report on (Myers). 1901. p. 309	A29.6:29
Zabriskie, Rev. J. L. Water bug found by, note on (Bergroth).	A9 7.1
Zamia, spermatogenesis and fecundation of (Webber). 1901	A19.3:2
Zapus. See Jumping mice.	
Zebroids, breeding of p. 369	A4.1:898
Zehntner, L. Sugar-cane borers of Java. 1898. p. 32	A9.6:10
Zeitler, J. N. Milk from Canstadt, report on. 1890. p. 153	A7.3:24
Zinc in evaporated apples (Wiley). 1896	A7.3:48
Zinc-iron method, determination of nitric nitrogen by (Shiver). 1894. p. 142	17 2.12
100% p. 174	411.0.70

#### Index

	Classification no.
Znaim cucumbers, cultivation of (Fairchild). 1901	A23.4:2
Zones:	
Life and crop, of United States (Merriam). 1898	A5.3:10
Verdant, notes on (Abbe). 1893. p. 365	A29.6:21
Zoölogy:	
	A10.6:
Medical and veterinary, index catalogue of. Pt. 1. Authors:  A to Azevedo (Stiles and Hassall). 1902	A4.3:391
See also Mammalogy.	
Zuntz, N. Metabolism of nutrients in animal body and source of	
muscular energy. 1897. p. 538	A10.6:7
Zuyder-Zee, reclamation of. 1875. p. 455	A27.9:13

## **APPENDIX**

REPORTS WHICH ORIGINATED IN THE AGRICULTURE DEPARTMENT, BUT WHICH WERE PRINTED ONLY AS CONGRESSIONAL DOCUMENTS

(1) 37th Cong., 3d sess., H. doc. 14; serial number 1159.

Letter from Commissioner of Department of Agriculture, in answer to resolutions in regard to expenditure of agricultural fund. Dec. 18, 1862. 8 pp. (Contains statement of money paid for agricultural statistics, etc., July 1 to Dec. 5, 1862, and opinion of Attorney-General on transfer of unexpended appropriation and debts of Commissioner of Patents for agricultural purposes.)

(2) 38th Cong., 1st sess., S. mis. doc. 13; serial number 1177.

Letter of Commissioner of Agriculture to Chairman Committee on Agriculture upon subject of taxation of tobacco as recommended by Commissioner of Internal. Revenue. January 21, 1864. 6 pp.

(Shows reasons for dissent from proposition of Commissioner of Internal Rev-

enue to tax leaf tobacco twenty cents per pound.)

(3) 38th Cong., 2d sess., S. doc. 35; serial number 1209.

Letter of Commissioner of Agriculture, transmitting report of commission appointed to test practicability of cultivating and preparing flax or hemp as substitute for cotton. March 1, 1865. 96 pp.

(4) 39th Cong., 1st sess., H. doc. 49; serial number 1255.

Reply of Commissioner of Agriculture to resolution relative to receipts and disbursements of that Department. February 21, 1866. 43 pp.

(An itemized account of all receipts and disbursements of the Department from its inception, May 15, 1862, to Jan. 30, 1866.)

(5) 39th Cong., 1st sess., S. mis. doc. 98; serial number 1239.

Letter of Commissioner of Agriculture, communicating information in relation to rinderpest or cattle plague. April 18, 1866. 21 pp.

(History of disease, remedies and courses of treatment advisable, and measures necessary to prevent its spread.)

(6) 39th Cong., 1st sess., S. mis. doc. 103; serial number 1239.

Communication from Commissioner of Agriculture relative to subject of curing seed and cultivating china grass. May 3, 1866. 5 pp.

(7) 39th Cong., 1st sess., S. mis. doc. 124; serial number 1239.

Letter of Commissioner of Agriculture to Chairman Committee on Agriculture, transmitting communication from Argentine Republic in reference to purchase by our Government of flock of alpacas. July 5, 1866. 3 pp.

(8) 40th Cong., 2d sess., H. doc. 55; serial number 1330.

Letter from Commissioner of Agriculture in answer to resolution relative to allowance of twenty per cent for last fiscal year. December 16, 1867. 1 p.

(9) 40th Cong., 2d sess., H. doc. 91; serial number 1332.
 Report of Commissioner of Agriculture in response to House resolution.
 January 13, 1868. 11 pp.
 (Report on condition of Department, and legislation necessary for reorganization in keeping with its vast interests.)

(10) 40th Cong., 2d.sess., H. doc. 121; serial number 1337.

Letter from Commissioner of Agriculture relative to duty on importations of foreign stock. January 27, 1868. 2 pp.

(11) 40th Cong., 2d sess., H. doc. 188; serial number 1337.

Letter from Commissioner of Agriculture, transmitting memorial of Tennessee Horticultural Society for removal of import duties on agricultural seeds, etc., and approving same. February 25, 1868. 2 pp.

(12) 40th Cong., 3d sess., H. doc. 93; serial number 1381.

Letter from Commissioner of Agriculture relative to proposed international horticultural exhibition to be held at Hamburg Sept., 1869. February 24, 1869. 3 pp.

(13) 41st Cong., 2d sess., H. ex. doc. 107; serial number 1417.

Letter from Commissioner of Agriculture in answer to resolution in relation to extent and value of foreign commodities susceptible of production within limits of country, as plants useful for dye-stuffs, medicines, and for other economic purposes. February 3, 1870. 5 pp.

(Letter includes table showing amount and value of articles imported at New

York City, 1869, and their products.)

- (14) 42d Cong., 3d sess., H. ex. doc. 34; serial number 1565.

  Letter from Commissioner of Agriculture, transmitting list of articles purchased and disposed of by his department since inventory made December 1, 1871. December 10, 1872. 2 pp.
- (15) 42d Cong., 2d sess., H. ex. doc. 17; serial number 1509.

  Letter from Commissioner of Agriculture relative to inventory and accounts of property of U.S. in public buildings and grounds. December 11, 1871. 2 pp.
- (16) 42d Cong., 2d sess., S. mis. doc. 144; serial number 1482.

  Letter from Commissioner of Agriculture, communicating, in compliance with resolution, statement of statistics of wools and woolens, showing importation and domestic production thereof. April 24, 1872. 6 pp.
- (17) 44th Cong., 1st sess., S. mis. doc. 75; serial number 1665.

  Letter from Commissioner of Agriculture, transmitting, in answer to resolution, information in relation to soil and climate adapted to growth of sea-island cotton. March 10, 1876. 3 pp.
- (18) 44th Cong., 1st sess., S. mis. doc. 75, pt. 2; serial number 1665.

  Letter from Commissioner of Agriculture, communicating, in answer to resolution, additional information in relation to cultivation of sea-island cotton.

  March 20, 1876. 2 pp.
- (19) 45th Cong., 2d sess., H. ex. doc. 24; serial number 1802.

  Message from President of United States, transmitting special report upon subject of forestry by Commissioner of Agriculture. December 14, 1877. 3 pp. (A short review of "Report on Forestry, by Franklin B. Hough.")
- (20) 45th Cong., 2d sess., S. ex. doc. 35; serial number 1780.

  Message from President of the United States, communicating, in answer to resolution, information in relation to disease prevailing among swine and other domestic animals. February 28, 1878. 149 pp.
- (21) 45th Cong., 3d sess., S. mis. doc. 71; serial number 1833.

  Letter from Commissioner of Agriculture to Chairman Committee on Agriculture, communicating information on subject of pleuro-pneumonia among cattle. February 15, 1879. 22 pp.

  (Consists of many letters from men interested, history of disease and preventive measures adopted here and abroad.)
- (22) 47th Cong., 1st sess., H. mis. doc. 30; serial number 2046.

  Communication from Commissioner of Agriculture relative to establishment of "Experiment Station" in District of Columbia. February 1, 1882. 6 pp. (Letters showing advantages to foreign countries of experiment stations and our need for them.)
- (23) 47th Cong., 1st sess., H. mis. doc. 39; serial number 2046.

  Letter from Commissioner of Agriculture, in response to resolution, relative to growth of cinchona in United States. May 17, 1882. 3 pp.
- (24) 47th Cong., 2d sess., S. mis. doc. 51; serial number 2083.

  Investigation of scientific and economic relations of sorghum-sugar industry, by Committee of National Academy of Sciences. November, 1882. Washington, Government Printing Office, 1883. 152 pp.
  - (Contains: Report of committee; conclusion and summary; and appended papers: So-called Chinese sugar cane, by S. Wells Williams; Sorghum, by Louis Vilmorin; Sorghum, by Leonard Wray; Sorghum and some conclusions as to value as source of sugar, by Peter Collier; Statistics of sorghum, by J. R. Dodge; Sorghum sugar cane; Rio Grande Sugar Co., New Jersey; Champaign Sugar and Glucose Mfg. Co., Champaign, Ill.; Experiments in amber cane at Madison, Wisconsin; Experiments with sorghum canes, by Magnus Swenson; Varieties of cane grown for experiments, by W. A. Henry; Manufacture of sugar, sirup, and glucose from sorghum, by Henry H. Weber and Melville A. Scovell; Letters; and Bibliography.)
- (25) 48th Cong., 1st sess., S. ex. doc. 137; serial number 2167.

  Letter from Commissioner of Agriculture, transmitting, in answer to resolution, statement of amount of certain grains produced in United States during certain periods, and their disposition. March 25, 1884. 12 pp.

- (26) 48th Cong., 2d sess., H. ex. doc. 46; serial number 2296.

  Letter from Commissioner of Agriculture, transmitting list of persons employed and statement of expenditures and of means adopted for suppression of contagious and infectious diseases among domestic animals. December 18, 1884. 8 pp.
- (27) 49th Cong., 1st sess., H. mis. doc. 154; serial number 2415.

  Letter from Commissioner of Agriculture, transmitting statement of expenditures for fiscal year ended June 30, 1885. March 17, 1886. 43 pp.
- (28) 49th Cong., 1st sess., H. mis. doc. 240; serial number 2418.

  Letter from Commissioner of Agriculture, transmitting, in response to resolution, statement showing amount expended for chemical division in laboratory from appropriation for present fiscal year and balance unexpended. April 27, 1886. 4 pp.
- (29) 49th Cong., 1st sess., H. mis. doc. 284; serial number 2418.

  Letter from Commissioner of Agriculture, transmitting certain papers, in response to resolution calling for copy of Department circular of June 6, 1882; copy of award of committee appointed to carry provisions of circular into effect; copies of all correspondence with Delaware Beet-Sugar Co. on subject, and statement of awards paid and to whom. May 14, 1886. 6 pp.

  (Circular offers awards to manufacturers of sorghum and beet sugar for best reports on methods used.)
- (30) 49th Cong., 1st sess., H. mis. doc. 303; serial number 2488.

  Letter from Acting Commissioner of Agriculture, transmitting, in response to resolution, report by statistician of Department respecting supply and domestic requirement of wheat and corn, and acreage of wheat, for present year, as compared with past five years; also probable requirements of importing countries and acreage of crop and probable surplus or shortage in exporting countries for ensuing year. June 1, 1886. 11 pp.
- (31) 49th Cong., 2d sess., H. mis. doc. 20; serial number 2488.

  Letter from Commissioner of Agriculture, transmitting report of expenditures for fiscal year ended June 30, 1886. December 14, 1886. 42 pp.
- (32) 50th Cong., 1st sess., S. ex. doc. 24; serial number 2504.

  Letter from Commissioner of Agriculture in response to resolution relative to employés obtaining patents for process of sugar making. December 13, 1887. 5 pp.

  (Letter in restraint of allowing patents to Magnus Swenson, and opinion of Attorney-General.)
- (33) 50th Cong., 1st sess., H. mis. doc. 122; serial number 2565.

  Letter from Commissioner of Agriculture, transmitting statement of expenditures for fiscal year ended June 30, 1887. January 18, 1888. 81 pp.
- (34) 50th Cong., 1st sess., S. ex. doc. 68; serial number 2510.

  Letter from Commissioner of Agriculture, transmitting, in response to resolution, report of Professor Swenson on sorghum sugar. February 6, 1888. 11 pp.
- (35) 50th Cong., 1st sess., S. ex. doc. 69; serial number 2510.

  Letter from Commissioner of Agriculture, transmitting report for 1887 of Bureau of Animal Industry. February 6, 1888. 75 pp.
- (36) 50th Cong., 2d sess., S. mis. doc. 29; serial number 2614.

  Letter of Commissioner of Agriculture, transmitting report of Joseph Neumann of result of his study and experiments of wild native silkworm of California. January 5, 1889. 5 pp.
- (37) 50th Cong., 2d sess., H. mis. doc. 62; serial number 2654.

  Letter from Commissioner of Agriculture, transmitting report for 1888 of Bureau of Animal Industry. January 9, 1889. 116 pp.
- (38) 50th Cong., 2d sess., H. mis. doc. 135; serial number 2654.

  Letter from Commissioner of Agriculture, transmitting report of Women's Silk Culture Association of United States for fiscal year 1888. March 2, 1889. 4 pp.
- (39) 51st Cong., 1st sess., S. ex. doc. 24; serial number 2682.

  Letter of Secretary of Agriculture, transmitting report of operations of Bureau of Animal Industry for year 1889. January 8, 1890. 74 pp.

- (40) 51st Cong., 1st sess., H. ex. doc. 104; serial number 2741.

  Letter from Secretary of Agriculture, transmitting statement of expenditures for fiscal year ended June 30, 1889. January 13, 1890. 98 pp.
- (41) 51st Cong., 1st sees., H. ex. doc. 110; serial number 2743.

  Letter from Secretary of Agriculture, transmitting reports upon operations of Women's Silk Culture Association of United States and of Ladies' Silk Culture Society of California, and upon experiments made in District of Columbia with silk-reeling machinery. January 16, 1890. 30 pp.

  (Includes also report of Joseph Neumann.)
- (42) 51st Cong., 1st sess., H. ex. doc. 423; serial number 2752.

  Communication from Acting Secretary of Agriculture, in reference to deficiency in appropriation for North Dakota Agricultural Experiment Station, and stating that said appropriation should be made. June 21, 1890. 1 p.
- (43) 51st Cong., 1st sess., S. mis. doc. 179; serial number 2700.

  Letter of Secretary of Agriculture, transmitting synopsis of report which the Department of Agriculture will make upon subject of irrigation by artesian wells. July 1, 1890. 7 pp.

  (This is a short synopsis of (A15.2:Ar7).)
- (44) 51st Cong., 2d sess., H. ex. doc. 35; serial number 2855.

  Letter from Secretary of Agriculture, transmitting statement of expenditures of all appropriations for fiscal year ended June 30, 1890. December 3, 1890. 95 pp.
- (45) 51st Cong., 2d sess., S. ex. doc. 8; serial number 2818.

  Letter from Secretary of Agriculture, transmitting report of Bureau of Animal Industry [for year 1890]. December 11, 1890. 104 pp.
- (46) 51st Cong., 2d sess., S. ex. doc. 53, pt. 2; serial number 2818.

  Letter from Secretary of Agriculture, transmitting, in additional response to resolution, report of progress of irrigation in months of November and December. January 20, 1891. 14 pp. 12 folded pl.
- (47) 51st Cong., 2d sess., H. ex. doc. 203; serial number 2863.

  Letter from Secretary of Agriculture, transmitting statement of all purchases of cocoons and all sales of silk and silk waste during fiscal year ending June 30, 1890; also reports of Ladies' Silk Culture Society of California and Women's Silk Culture Association of United States. January 24, 1891. 25 pp.
- (48) 52d Cong., 1st sess., S. ex. doc. 11; serial number 2892.

  Letter from Secretary of Agriculture, transmitting report of Bureau of Animal Industry for year 1891. December 22, 1891. 129 pp.
- (49) 52d Cong., 1st sess., H. ex. doc. 55; serial number 2953.

  Letter from Secretary of Agriculture, transmitting detailed statement of all expenditures of appropriations for year ending June 30, 1891. January 7, 1892. 134 pp.
- (50) 52d Cong., 1st sess., 8. ex. doc. 45; serial number 2900.

  Letter from Secretary of Agriculture, in response to resolution, transmitting report of agent of Department of Agriculture for making experiments in production of rainfall. February 25, 1892. 59 pp. 9 pl.
- (51) 52d Cong., 1st sess., S. ex. doc. 75; serial number 2900.

  Letter from Secretary of Agriculture, in response to resolution, relative to certain employés in Department. April 12, 1892. 5 pp.
- (52) 52d Cong., 2d sess., S. ex. doc. 20; serial number 3056.

  Letter from Secretary of Agriculture, transmitting annual report of Bureau of Animal Industry for 1892. January 5, 1893. 229 pp.
- (53) 52d Cong., 2d sess., H. ex. doc. 251; serial number 3107.

  Letter from Secretary of Agriculture, transmitting statement showing expenditure of appropriation for experiments in manufacture of sugar. March 2, 1893. 3 pp.
- (54) 53d Cong., 2d sess., H. ex. doc. 14; serial number 3223.

  Letter from Secretary of Agriculture, transmitting detailed statement of expenditures of all appropriations for fiscal year ending June 30, 1893. December 5, 1893. 208 pp.

- (55) 53d Cong.. 2d sess., S. ex. doc. 72; serial number 3160.
  Letter from Secretary of Agriculture, in response to resolution, relative to wheat crop of United States. April 4, 1894. 2 pp.
- (56) 53d Cong., 2d sess., 8. ex. doc. 125; serial number 3163.

  Letter from Secretary of Agriculture, in response to resolution, calling for statement of visible and invisible supply of wheat likely to be in United States on July 1, 1894, and other information concerning crops for 1894. June 29, 1894. 2 pp.
- (57) 53d Cong., 2d sess., S. ex. doc. 172; serial number 3163.

  Letter from Secretary of Agriculture, in response to resolution, transmitting information in relation to investigations and experiments in planting native pine seed for growth of native pine in sand hills of the Northwest, and other information called for in resolution. August 2, 1894. 14 pp.

  (Contains extract from report of Forestry Division, 1892, on forest-planting experiments in Nebraska.)
- (58) 53d Cong., 3d sess., H. ex. doc. 8; serial number 3319.

  Letter from Secretary of Agriculture, transmitting detailed statement of expenditures for fiscal year ending June 30, 1894. December 3, 1894. 180 pp.
- (59) 53d Cong., 3d sess., S. ex. doc. 69; serial number 3280.

  Letter from Secretary of Agriculture, in response to resolution, transmitting information in relation to machinery and other materials furnished by General Government and used for experimenting in manufacture of sugar. February 12, 1895. 6 pp.
- (60) 54th Cong., 1st sess., H. doc. 25; serial number 3390.

  Letter from Secretary of Agriculture, transmitting detailed statement of expenditures of all appropriations for fiscal year ended June 30,.1895, including supplemental account to date. December 6, 1895. 189 pp.
- (61) 54th Cong., 1st sess., H. doc. 208; serial number 3420.

  Letter from Secretary of Agriculture, replying to resolution relating to efficiency of employees in certain Executive Departments. February 6, 1896. 1 p.
- (62) 54th Cong., 1st sess., S. doc. 248; serial number 3354.

  Letter from Secretary of Agriculture in response to resolution directing Secretary of Agriculture to immediately communicate to Senate reasons for delay in supplying seeds for distribution. May 8, 1896. 2 pp.
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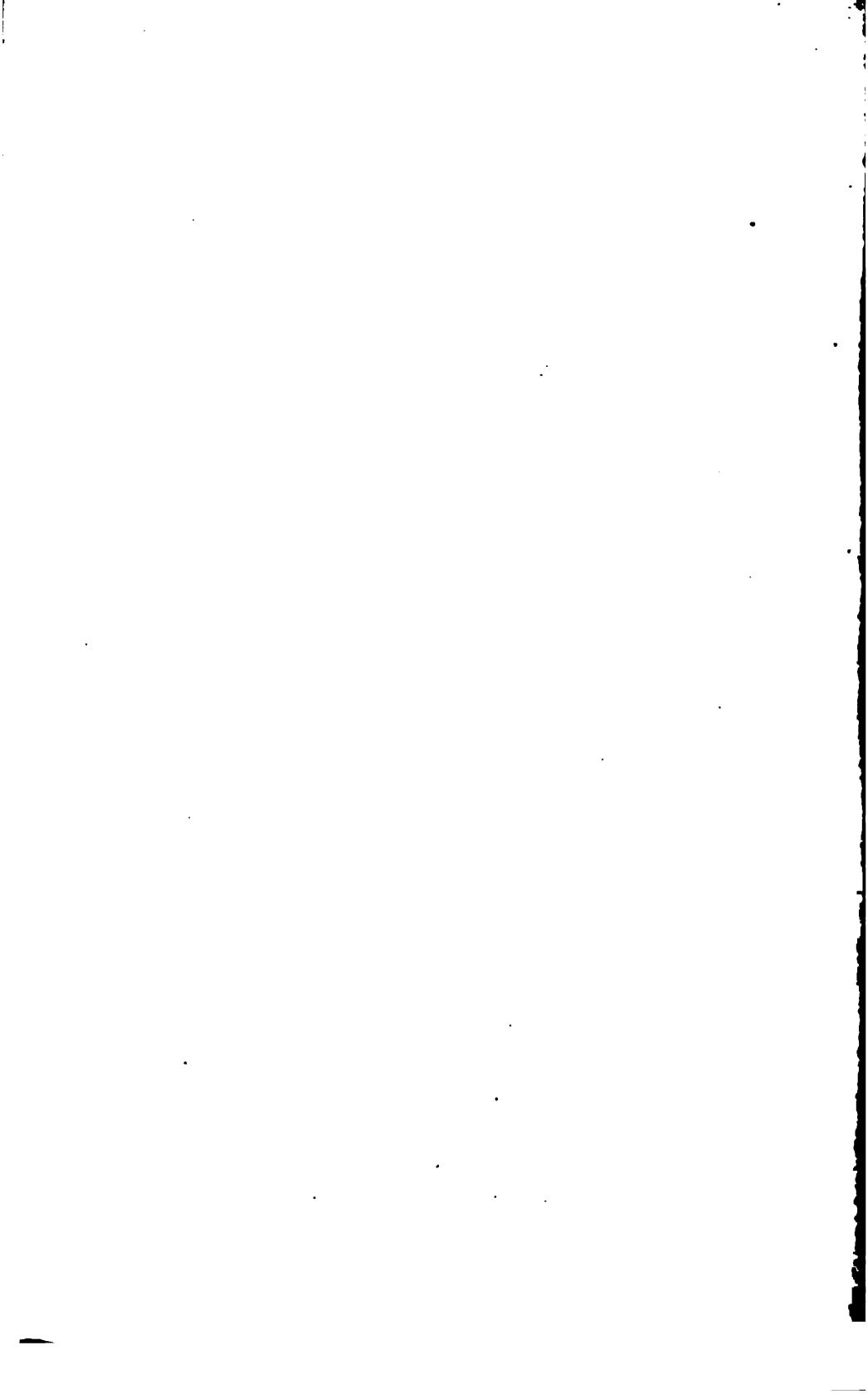
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## INDEX TO APPENDIX

Entry no.	Entry no.
Adulteration, food 81	Imports
Ages of employees	Internal-revenue tax
Agriculture Department 9	Irrigation 43, 46, 73, 80 Ladies' Silk Culture Society of California. 41, 47
Alpacas, flock of	Machinery
Amber cane	Machinery 41 Madison, Wis. 24
Science 72	Manson, Marsden 80
Science	Marx. Charles D
Animals	Mead, Elwood
Argentine Republic	Medicines
Artesian wells	National Academy of Sciences 24
Beans, castor 64	Nebraska 57, 66 Neumann, Joseph 36, 41
Beet sugar 29	New York City
Bibliography of sorghum	North Dakota
Boggs, Eduard M. 80	Northwest, the
British India, forests	Office quarters.
California	Omaha, Nebr
Castor beans	Patents
Cattle plague	Physics, timber
Champaign Sugar and Glucose Manufac-	Pine trees
turing Company, Champaign, Ill	Plants 18
Chemical Division	Pleuro-pneumonia
Chinagrass	Porto Rico
Chinese sugar cane	Property in public buildings. 15
Cocoons	Public buildings, property. 15 Purchases
Collier, Peter	Quarters, office
Corn	Railway ties 72
Cotton	Rainfall 50
Crops	Receipts, 1862-1865
Cruelty to animals 63, 67 Deficiencies 42, 75	Reservoirs 73 Rinderpest 5
Delaware Beet Sugar Company 29	Rinderpest
Dispursements. See Expenditures.	Schuyler, James D
Diseases, animal 20, 26 District of Columbia 22, 41, 63, 67	Scovell, Melville A 24
District of Columbia	Sea-island cotton
Dodge, J. R. 24	Seeds
Domestic animals	Silk
Dyestuffs 13	Silk worm
Employees	Sirup 24
Europe, forest policies 72	Smythe, William E
Expenditures. 1,4,	Sorghum sugar
27, 31, 83, 40, 44, 49, 54, 58, 60, 68, 71, 74, 78, 83	Soulé, Frank80
Experiment stations. 22, 42, 76 Fernow, B. E. 72	Statistics, agricultural
Flax	Sugar
Flour, wheat	Swine
Food adulteration	Tennessee Horticultural Society
Forestry 19, 57, 72	Tobacco, leaf
Forestry Division	Tratman, E. E. Russell
Germany, forests	Twenty per cent allowance
Grain	Vilmorin, Louis
Grass, China	Wells, artesian 43
Grunsky, C. E 80	Wheat
Hamburg 12	Wheat flour
Hemp	Williams, S. Wells
Henry, W. A. 24 Horticulture. 12	Wilson, J. M
Hough, Franklin B. 19	Wools and woolens



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